98087-RCRA

Data analysis : Optimal stocking in lodgepole pine stands with topkill.
USDA Forest Service. Rocky Mountain Research Station
Research Work Unit No. 4152

Report submitted by:
Bill Jacobi
Sam Harrison
Dept. of Bioagricultural Sciences and Pest Management
Colorado State University
October 12, 1998

Data analysis : Optimal stocking in lodgepole pine stands with topkill.
USDA Forest Service, Rocky Mountain Research Station
Research Work Unit No. 4152

Report submitted by:
Bill Jacobi
Sam Harrison
Dept. of Bioagricultural Sciences and Pest Management
Colorado State University
October 12, 1998

Data analysis for optimal stocking in lodgepole pine stands with topkill.
USDA Forest Service, Rocky Mountain Research Station
Research Work Unit No. 4152


Materials included in this report:

As per section 1(a) of the Research Agreement:
  1. Printouts of the raw and transformed data sets used in the analysis.

  2. A list of the data items used in these sets and explanations of the calculations
  used for each item.

As per section 1(b) of the Agreement:
  Plot summary tables including all requested data items. These are included as
  tables 1 through 22.

As per section 1(c) of the Agreement:
  Summary tables displaying the total change and percent change in total sapwood
  basal area for the years 1991-1997. These are included as tables 23 and 24.

Comandra Growth Study

**Data Items in transformed data set:**

1. Frequency- and T_ trees is number of living and dead trees in plot

2. Grd_ tree- indicates if tree was girdled or not 0= no and 1 = yes

3. BA 90-97 is the average BA per tree based on dbh squared X .005454. Units are square feet.

4. DBH 91-97 is the average DBH for measured trees on each plot. Units are inches.

5. Quadratic mean diameter is the average basal area of the plot/ .005454 and then square root of this value. Units are inches

6. HRT 91-97 is the average heart wood radius for each plot based on the trees measured each year. Units are inches.

7. SAP 91-97 is the average sapwood basal area per tree for each plot based on the average of the trees measured each year. Sapwood basal area was derived from heartwood and sapwood radii. The two radii were added, X 2, Squared, X .005454 to get wood basal area and then heartwood basal area was subtracted. Heartwood basal area is 2 X hrt(91-97) , squared, X .005454. Units are square feet.

8. T_BA (91-97) is the total basal area and is BA X total number of trees(Frequency) in plot / Hectors in plot. Units are square feet per hector.

9. T_SPBA (91-97) is the total sapwood area and is SAP X number of trees/ hectors in plot. Units are square feet per hector.

10. Rad 10 (91-97) is the average of the last 10 year radial growth of the trees measured that year. Units are inches.

11. Rad 5 (91-97) is the average of the last 5 year radial growth of the trees measured that year. Units are inches.

12. Stmln (91-97) is the average stem length of all trees measured on the plot that year. Units are feet.

13. Crnht (91-97) is the average distance from ground to compact base of crown on trees measured that year. Units are feet.

14. Crntp (91-97) is the height from ground to top of live grown. Units are feet.

15. CSAPBA (92-97) is the change in the sap wood basal area based on the trees measured that year compared to 1991.

16. T_den is the number of stems per hec. based on the total number of stems in 1991.

Data items in raw data sets.
**Identification Data Set.**

1.  Block is the number of the four locations where this study was installed
2.  Plot is the treatment area (1-5)
3.  Treatment is the type of density and amount of girdled trees. (1= well stocked/no damage, 2= well stocked/minor damage, 3= well stocked/severe damage, 4=over stocked/minor damage, 5=over stocked/severe damage.
4.  Tag is the tree tag number.
5.  Crown class (1=dominate, 2=codominate, 3=intermediate, 4=suppressed)
6.  Rank-Thinning rank (1= definite keep, 2=good keep, 3= adequate, 4= good to drop, 5= definitely drop)
7.  Easting is the location of trees in relation to southwest corner of plot. Units are feet.
8.  Northing is the location of trees in relation to southwest corner of plot. Units are feet.

**Observation Data For 1990:**

1.  Grd_Tree is the treatment (1=none, 2=girdle, 3=remove)
2.  Girdle is the height to girdle is the distance from ground to girdle. Units are feet.
3.  DBH is the diameter in 1990 at 4.5 feet. Units are inches.

**Observation Data for 1991-97:**

1.  Block
2.  Plot
3.  Tag
4.  Stat is tree status (0=live, 1= dying, 2=dead)
5.  dbh is diameter of tree at 4.5 feet. Units are inches
6.  STMLN is stem length is distance from ground to top of live or dead top. Units are feet.
7.  CRNHT is height of live crown is distance from ground to bottom of compact live crown. Units are feet
8.  Crown is the width of crown in feet.
9.  CRNTP is height of live crown top is distance from ground to top of live crown. Units are feet.
10. RAD_05 is Five-year radial growth which is the radial distance of the last 5 years growth rings at dbh. Units are inches.
11. RAD_10 is ten-year radial growth which is the radial distance of the last 10 years growth rings at dbh. Units are inches.
12. HRT is the heartwood radius which is the radius of the heartwood at dbh. Units are inches.

13. <u>Sap</u> is sapwood radius which is the radial distance of sapwood between bark and heartwood.

Comments on Data:

1. Block 4 was not measured in 1995.

**Table 1: 1990 Data : Pretreatment conditions of lodgepole pine study plots:**
**Optimum stocking in stands with topkill.**

| Block | Plot | Stand age (years) | Plot area (acres) | Site Index | # trees | QMD (in.) | Density (trees/acre) | Total BA ft.$^2$/acre |
|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 89 | 0.15 | 51 | 72 | 6.87 | 480 | 123.6 |
| 1 | 2 | 89 | 0.15 | 54 | 90 | 6.5 | 600 | 138.5 |
| 1 | 3 | 89 | 0.15 | 49 | 73 | 6.05 | 730 | 145.7 |
| 1 | 4 | 89 | 0.15 | 57 | 91 | 6.92 | 607 | 158.7 |
| 2 | 1 | 87 | 0.10 | 45 | 148 | 5.14 | 987 | 142.7 |
| 2 | 2 | 87 | 0.15 | 48 | 150 | 5.25 | 1000 | 150.6 |
| 2 | 3 | 87 | 0.15 | 50 | 116 | 5.65 | 773 | 134.9 |
| 2 | 4 | 87 | 0.15 | 47 | 106 | 4.96 | 1060 | 142.4 |
| 3 | 1 | 47 | 0.10 | 59 | 69 | 5.03 | 460 | 63.6 |
| 3 | 2 | 47 | 0.15 | 57 | 106 | 5.32 | 707 | 109.3 |
| 3 | 3 | 47 | 0.15 | 58 | 91 | 4.46 | 607 | 66.0 |
| 3 | 4 | 47 | 0.15 | 54 | 75 | 5.12 | 500 | 71.6 |
| 3 | 5 | 47 | 0.15 | 70 | 92 | 4.19 | 613 | 58.8 |
| 4 | 1 | 41 | 0.15 | 53 | 103 | 3.99 | 687 | 59.9 |
| 4 | 2 | 41 | 0.15 | 62 | 114 | 3.32 | 760 | 45.8 |
| 4 | 3 | 41 | 0.15 | 51 | 121 | 3.3 | 807 | 48.0 |
| 4 | 4 | 41 | 0.15 | 58 | 112 | 3.31 | 747 | 44.7 |
| 4 | 5 | 41 | 0.15 | 58 | 112 | 2.98 | 747 | 36.2 |

**Table 2 : 1991 Post - treatment conditons lodgepole pine study plots : Optimum stocking in stands with topkill. For all trees.**

| Block | Plot | # trees | QMD | Density trees/ha | Total BA ft.$^2$/acre | Sapwood BA ft.$^2$/acre | 5 year radial growth (in.) | 10 year radial growth (in.) | % trees girdled |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 52 | 7.19 | 347 | 97.9 | 60.8 | 0.13 | 0.26 | 0.0 |
| 1 | 2 | 55 | 7.12 | 367 | 101.3 | 49.3 | 0.12 | 0.26 | 24.4 |
| 1 | 3 | 62 | 6.22 | 620 | 131.0 | 73.6 | 0.11 | 0.22 | 9.6 |
| 1 | 4 | 90 | 6.94 | 600 | 157.5 | 84.7 | 0.12 | 0.25 | 39.6 |
| 2 | 1 | 88 | 5.81 | 587 | 108.0 | 60.7 | 0.12 | 0.24 | 24.3 |
| 2 | 2 | 123 | 5.60 | 820 | 140.0 | 67.0 | 0.08 | 0.17 | 32.7 |
| 2 | 3 | 73 | 6.50 | 487 | 112.1 | 50.0 | 0.10 | 0.21 | 0.0 |
| 2 | 4 | 77 | 5.34 | 770 | 119.8 | 63.9 | 0.10 | 0.22 | 4.7 |
| 3 | 1 | 61 | 5.23 | 407 | 60.6 | 42.8 | 0.30 | 0.61 | 11.6 |
| 3 | 2 | 14 | 5.32 | 693 | 107.2 | 79.3 | 0.31 | 0.64 | 32.1 |
| 3 | 3 | 72 | 4.81 | 480 | 60.4 | 43.6 | 0.32 | 0.62 | 25.3 |
| 3 | 4 | 73 | 5.11 | 487 | 69.3 | 52.2 | 0.30 | 0.61 | 14.7 |
| 3 | 5 | 92 | 4.19 | 613 | 58.8 | 45.7 | 0.35 | 0.69 | 0.0 |
| 4 | 1 | 99 | 3.98 | 660 | 57.0 | 39.3 | 0.33 | 0.69 | 38.8 |
| 4 | 2 | 85 | 3.48 | 567 | 37.5 | 31.5 | 0.32 | 0.71 | 29.0 |
| 4 | 3 | 119 | 3.32 | 793 | 47.8 | 37.4 | 0.39 | 0.83 | 14.9 |
| 4 | 4 | 83 | 3.57 | 553 | 38.4 | 29.5 | 0.41 | 0.53 | 10.7 |
| 4 | 5 | 112 | 2.93 | 747 | 36.2 | 28.3 | 0.39 | 0.81 | 0.0 |

**Table 3 : 1992 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill.**
**For all trees.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|-------------------|---------------------|--------------------------|----------------------------|
| 1 | 1 | 12 | 347 | 94.9 | 50.1 | 0.14 | 0.25 |
| 1 | 2 | 15 | 367 | 97.5 | 37.8 | 0.10 | 0.23 |
| 1 | 3 | 14 | 620 | 133.7 | 63.0 | 0.08 | 0.17 |
| 1 | 4 | 24 | 600 | 154.7 | 76.8 | 0.11 | 0.21 |
| 2 | 1 | 24 | 587 | 94.5 | 50.5 | 0.08 | 0.15 |
| 2 | 2 | 37 | 820 | 131.4 | 69.0 | 0.06 | 0.14 |
| 2 | 3 | 14 | 487 | 99.9 | 41.8 | 0.09 | 0.20 |
| 2 | 4 | 15 | 770 | 117.7 | 49.5 | 0.10 | 0.22 |
| 3 | 1 | 13 | 407 | 82.5 | 53.3 | 0.27 | 0.61 |
| 3 | 2 | 21 | 693 | 116.5 | 72.5 | 0.30 | 0.64 |
| 3 | 3 | 15 | 480 | 71.3 | 47.1 | 0.29 | 0.60 |
| 3 | 4 | 15 | 487 | 73.0 | 46.5 | 0.28 | 0.63 |
| 3 | 5 | 19 | 613 | 54.8 | 31.3 | 0.29 | 0.59 |
| 4 | 1 | 21 | 660 | 69.8 | 44.0 | 0.26 | 0.58 |
| 4 | 2 | 18 | 567 | 41.3 | 28.0 | 0.29 | 0.64 |
| 4 | 3 | 24 | 793 | 57.3 | 34.2 | 0.37 | 0.79 |
| 4 | 4 | 17 | 553 | 48.1 | 26.0 | 0.42 | 0.91 |
| 4 | 5 | 23 | 747 | 39.1 | 22.2 | 0.37 | 0.81 |

**Table 4 : 1992 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For live trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|--------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 11 | 347 | 95.4 | 53.6 | 0.15 | 0.25 |
| 1 | 2 | 11 | 367 | 100.9 | 40.9 | 0.10 | 0.24 |
| 1 | 3 | 13 | 620 | 133.7 | 63.6 | 0.08 | 0.17 |
| 1 | 4 | 16 | 600 | 159.3 | 79.0 | 0.10 | 0.22 |
| 2 | 1 | 16 | 587 | 99.6 | 51.4 | 0.08 | 0.15 |
| 2 | 2 | 21 | 820 | 149.1 | 79.5 | 0.07 | 0.15 |
| 2 | 3 | 14 | 487 | 99.9 | 41.8 | 0.09 | 0.20 |
| 2 | 4 | 15 | 770 | 117.7 | 49.5 | 0.10 | 0.22 |
| 3 | 1 | 13 | 407 | 82.5 | 53.3 | 0.27 | 0.61 |
| 3 | 2 | 21 | 693 | 116.5 | 72.5 | 0.30 | 0.64 |
| 3 | 3 | 15 | 480 | 71.3 | 47.1 | 0.29 | 0.60 |
| 3 | 4 | 15 | 487 | 73.0 | 46.5 | 0.28 | 0.63 |
| 3 | 5 | 19 | 613 | 54.8 | 31.3 | 0.29 | 0.59 |
| 4 | 1 | 20 | 660 | 69.3 | 43.6 | 0.26 | 0.58 |
| 4 | 2 | 17 | 567 | 43.0 | 29.1 | 0.29 | 0.64 |
| 4 | 3 | 24 | 793 | 57.3 | 34.2 | 0.37 | 0.79 |
| 4 | 4 | 17 | 553 | 48.1 | 26.0 | 0.42 | 0.91 |
| 4 | 5 | 23 | 747 | 39.1 | 22.2 | 0.37 | 0.81 |

**Table 5 : 1992 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill.
For dying trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|--------------------|---------------------|----------------------------|-----------------------------|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 2 | 367 | 102.1 | 41.3 | 0.10 | 0.20 |
| 1 | 3 | 1 | 620 | 134.2 | 54.8 | 0.05 | 0.15 |
| 1 | 4 | 2 | 600 | 254.9 | 126.8 | 0.13 | 0.23 |
| 2 | 1 | 1 | 587 | 115.2 | 58.7 | 0.05 | 0.15 |
| 2 | 2 | 2 | 820 | 150.4 | 27.0 | 0.08 | 0.13 |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 0 | 770 | | | | |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 1 | 567 | 11.2 | 8.9 | 0.30 | 0.64 |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 6 : 1992 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill.**
**For dead trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|-------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 1 | 347 | 90.0 | 11.8 | 0.10 | 0.25 |
| 1 | 2 | 2 | 367 | 74.5 | 16.9 | 0.10 | 0.25 |
| 1 | 3 | 0 | 620 | | | | |
| 1 | 4 | 6 | 600 | 109.8 | 54.1 | 0.12 | 0.21 |
| 2 | 1 | 7 | 587 | 79.9 | 47.3 | 0.08 | 0.15 |
| 2 | 2 | 14 | 820 | 102.0 | 59.1 | 0.06 | 0.14 |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 0 | 770 | | | | |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 1 | 660 | 79.5 | 52.2 | 0.30 | 0.70 |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 7 : 1993 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For all trees.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 10 | 347 | 109.4 | 51.1 | 0.10 | 0.19 |
| 1 | 2 | 13 | 367 | 112.8 | 64.1 | 0.10 | 0.20 |
| 1 | 3 | 13 | 620 | 120.4 | 64.5 | 0.09 | 0.20 |
| 1 | 4 | 21 | 600 | 179.5 | 88.7 | 0.10 | 0.24 |
| 2 | 1 | 20 | 587 | 119.4 | 69.0 | 0.09 | 0.19 |
| 2 | 2 | 30 | 820 | 129.0 | 63.4 | 0.07 | 0.14 |
| 2 | 3 | 15 | 487 | 112.1 | 47.7 | 0.08 | 0.18 |
| 2 | 4 | 17 | 770 | 114.9 | 71.9 | 0.07 | 0.17 |
| 3 | 1 | 12 | 407 | 54.7 | 30.7 | 0.23 | 0.45 |
| 3 | 2 | 21 | 693 | 162.8 | 101.1 | 0.24 | 0.56 |
| 3 | 3 | 15 | 480 | 67.2 | 39.6 | 0.23 | 0.53 |
| 3 | 4 | 15 | 487 | 74.4 | 53.5 | 0.30 | 0.60 |
| 3 | 5 | 19 | 613 | 66.5 | 44.8 | 0.28 | 0.62 |
| 4 | 1 | 20 | 660 | 72.6 | 41.1 | 0.26 | 0.59 |
| 4 | 2 | 20 | 567 | 44.2 | 32.7 | 0.25 | 0.56 |
| 4 | 3 | 24 | 793 | 56.4 | 34.0 | 0.34 | 0.76 |
| 4 | 4 | 17 | 553 | 51.8 | 26.6 | 0.39 | 0.83 |
| 4 | 5 | 23 | 747 | 40.6 | 21.3 | 0.35 | 0.76 |

**Table 8 : 1993 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill.**
**For live trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|-------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 10 | 347 | 109.4 | 51.1 | 0.10 | 0.19 |
| 1 | 2 | 10 | 367 | 110.4 | 65.7 | 0.11 | 0.22 |
| 1 | 3 | 12 | 620 | 119.6 | 65.7 | 0.09 | 0.20 |
| 1 | 4 | 16 | 600 | 173.7 | 91.2 | 0.10 | 0.23 |
| 2 | 1 | 15 | 587 | 134.3 | 76.1 | 0.10 | 0.21 |
| 2 | 2 | 19 | 820 | 135.9 | 74.2 | 0.07 | 0.15 |
| 2 | 3 | 15 | 487 | 112.1 | 47.7 | 0.08 | 0.18 |
| 2 | 4 | 16 | 770 | 106.5 | 68.4 | 0.07 | 0.17 |
| 3 | 1 | 12 | 407 | 54.7 | 30.7 | 0.23 | 0.45 |
| 3 | 2 | 21 | 693 | 162.8 | 101.1 | 0.24 | 0.56 |
| 3 | 3 | 15 | 480 | 67.2 | 39.6 | 0.23 | 0.53 |
| 3 | 4 | 15 | 487 | 74.4 | 53.5 | 0.30 | 0.60 |
| 3 | 5 | 19 | 613 | 66.5 | 44.8 | 0.28 | 0.62 |
| 4 | 1 | 20 | 660 | 72.6 | 41.1 | 0.26 | 0.59 |
| 4 | 2 | 17 | 567 | 48.6 | 36.7 | 0.25 | 0.56 |
| 4 | 3 | 24 | 793 | 56.4 | 34.0 | 0.34 | 0.76 |
| 4 | 4 | 17 | 553 | 51.8 | 26.6 | 0.39 | 0.83 |
| 4 | 5 | 23 | 747 | 40.6 | 21.3 | 0.35 | 0.76 |

**Table 9 : 1993 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For dying trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|-------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 0 | 367 | | | | |
| 1 | 3 | 1 | 620 | 130.0 | 49.8 | 0.10 | 0.25 |
| 1 | 4 | 1 | 600 | 265.1 | 42.1 | 0.10 | 0.20 |
| 2 | 1 | 0 | 587 | | | | |
| 2 | 2 | 0 | 820 | | | | |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 0 | 770 | | | | |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 3 | 567 | 19.3 | 10.3 | 0.25 | 0.52 |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 10 : 1993 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill.
For dead trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 3 | 367 | 120.7 | 58.9 | 0.07 | 0.15 |
| 1 | 3 | 0 | 620 | | | | |
| 1 | 4 | 4 | 600 | 181.3 | 90.3 | 0.13 | 0.29 |
| 2 | 1 | 5 | 587 | 47.7 | 47.8 | 0.07 | 0.13 |
| 2 | 2 | 11 | 820 | 117.2 | 44.7 | 0.06 | 0.13 |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 1 | 770 | 249.0 | 128.1 | 0.10 | 0.20 |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 11 : 1994 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For all trees.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|-------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 10 | 347 | 97.7 | 54.9 | 0.18 | 0.35 |
| 1 | 2 | 12 | 367 | 107.0 | 48.4 | 0.17 | 0.29 |
| 1 | 3 | 13 | 620 | 155.6 | 88.9 | 0.13 | 0.25 |
| 1 | 4 | 19 | 600 | 155.0 | 85.8 | 0.11 | 0.24 |
| 2 | 1 | 15 | 587 | 98.3 | 68.5 | 0.10 | 0.20 |
| 2 | 2 | 23 | 820 | 155.2 | 77.2 | 0.10 | 0.21 |
| 2 | 3 | 15 | 487 | 127.2 | 55.9 | 0.09 | 0.20 |
| 2 | 4 | 15 | 770 | 129.1 | 65.3 | 0.08 | 0.17 |
| 3 | 1 | 12 | 407 | 64.6 | 31.6 | 0.20 | 0.46 |
| 3 | 2 | 21 | 693 | 122.5 | 67.9 | 0.20 | 0.47 |
| 3 | 3 | 14 | 480 | 66.3 | 38.7 | 0.24 | 0.54 |
| 3 | 4 | 15 | 487 | 91.5 | 55.5 | 0.24 | 0.56 |
| 3 | 5 | 18 | 613 | 62.9 | 39.1 | 0.29 | 0.58 |
| 4 | 1 | 20 | 660 | 72.3 | 31.8 | 0.19 | 0.45 |
| 4 | 2 | 16 | 567 | 48.4 | 25.8 | 0.21 | 0.48 |
| 4 | 3 | 25 | 793 | 74.0 | 33.5 | 0.31 | 0.70 |
| 4 | 4 | 17 | 553 | 54.9 | 28.2 | 0.31 | 0.70 |
| 4 | 5 | 22 | 747 | 73.1 | 41.9 | 0.30 | 0.69 |

**Table 12 : 1994 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For live trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|-----------------|--------------------|--------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 10 | 347 | 97.7 | 54.9 | 0.18 | 0.35 |
| 1 | 2 | 10 | 367 | 114.8 | 50.4 | 0.18 | 0.32 |
| 1 | 3 | 12 | 620 | 157.4 | 93.3 | 0.13 | 0.26 |
| 1 | 4 | 17 | 600 | 149.8 | 84.4 | 0.11 | 0.24 |
| 2 | 1 | 15 | 587 | 98.3 | 68.5 | 0.10 | 0.20 |
| 2 | 2 | 19 | 820 | 156.3 | 76.1 | 0.09 | 0.21 |
| 2 | 3 | 15 | 487 | 127.2 | 55.9 | 0.09 | 0.20 |
| 2 | 4 | 15 | 770 | 129.1 | 65.3 | 0.08 | 0.17 |
| 3 | 1 | 12 | 407 | 64.6 | 31.6 | 0.20 | 0.46 |
| 3 | 2 | 21 | 693 | 122.5 | 67.9 | 0.20 | 0.47 |
| 3 | 3 | 14 | 480 | 66.3 | 38.7 | 0.24 | 0.54 |
| 3 | 4 | 15 | 487 | 91.5 | 55.5 | 0.24 | 0.56 |
| 3 | 5 | 18 | 613 | 62.9 | 39.1 | 0.29 | 0.58 |
| 4 | 1 | 20 | 660 | 72.3 | 31.8 | 0.19 | 0.45 |
| 4 | 2 | 16 | 567 | 48.4 | 25.8 | 0.21 | 0.48 |
| 4 | 3 | 25 | 793 | 74.0 | 33.5 | 0.31 | 0.70 |
| 4 | 4 | 17 | 553 | 54.9 | 28.2 | 0.31 | 0.70 |
| 4 | 5 | 22 | 747 | 73.1 | 41.9 | 0.30 | 0.69 |

**Table 13 : 1994 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For dying trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|-------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 0 | 367 | | | | |
| 1 | 3 | 1 | 620 | 134.2 | 69.9 | 0.10 | 0.20 |
| 1 | 4 | 0 | 600 | | | | |
| 2 | 1 | 0 | 587 | | | | |
| 2 | 2 | 0 | 820 | | | | |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 0 | 770 | | | | |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 14 : 1994 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For dead trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|--------------------|---------------------|---------------------------|-----------------------------|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 2 | 367 | 68.4 | 38.4 | 0.10 | 0.19 |
| 1 | 3 | 0 | 620 | | | | |
| 1 | 4 | 2 | 600 | 198.7 | 97.5 | 0.13 | 0.28 |
| 2 | 1 | 0 | 587 | | | | |
| 2 | 2 | 4 | 820 | 150.0 | 82.4 | 0.10 | 0.22 |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 0 | 770 | | | | |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 15 : 1995 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For all trees.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|--------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 10 | 347 | 116.7 | 50.4 | 0.16 | 0.31 |
| 1 | 2 | 10 | 367 | 112.3 | 57.8 | 0.13 | 0.25 |
| 1 | 3 | 14 | 620 | 135.3 | 66.4 | 0.13 | 0.24 |
| 1 | 4 | 17 | 600 | 172.6 | 96.6 | 0.18 | 0.31 |
| 2 | 1 | 15 | 587 | 129.3 | 79.2 | 0.29 | 0.45 |
| 2 | 2 | 19 | 820 | 173.3 | 105.4 | 0.23 | 0.36 |
| 2 | 3 | 15 | 487 | 132.2 | 65.9 | 0.23 | 0.33 |
| 2 | 4 | 15 | 770 | 142.4 | 68.4 | 0.25 | 0.37 |
| 3 | 1 | 12 | 407 | 70.7 | 24.7 | 0.35 | 0.60 |
| 3 | 2 | 21 | 693 | 112.8 | 44.7 | 0.33 | 0.58 |
| 3 | 3 | 14 | 480 | 82.8 | 31.5 | 0.33 | 0.58 |
| 3 | 4 | 14 | 487 | 93.7 | 28.8 | 0.37 | 0.66 |
| 3 | 5 | 19 | 613 | 102.2 | 38.3 | 0.41 | 0.76 |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 16: 1995 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For live trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|---------------------|-------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 10 | 347 | 116.7 | 50.4 | 0.16 | 0.31 |
| 1 | 2 | 10 | 367 | 112.3 | 57.8 | 0.13 | 0.25 |
| 1 | 3 | 12 | 620 | 135.1 | 66.0 | 0.14 | 0.25 |
| 1 | 4 | 16 | 600 | 175.0 | 96.9 | 0.19 | 0.33 |
| 2 | 1 | 15 | 587 | 129.3 | 79.2 | 0.29 | 0.45 |
| 2 | 2 | 17 | 820 | 172.0 | 106.5 | 0.24 | 0.37 |
| 2 | 3 | 15 | 487 | 132.2 | 65.9 | 0.23 | 0.33 |
| 2 | 4 | 15 | 770 | 142.4 | 68.4 | 0.25 | 0.37 |
| 3 | 1 | 12 | 407 | 70.7 | 24.7 | 0.35 | 0.60 |
| 3 | 2 | 21 | 693 | 112.8 | 44.7 | 0.33 | 0.58 |
| 3 | 3 | 13 | 480 | 86.7 | 32.8 | 0.34 | 0.60 |
| 3 | 4 | 14 | 487 | 93.7 | 28.8 | 0.37 | 0.66 |
| 3 | 5 | 19 | 613 | 102.2 | 38.3 | 0.41 | 0.76 |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 17 : 1995 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For dying trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|--------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 0 | 367 | | | | |
| 1 | 3 | 1 | 620 | 130.0 | 66.1 | 0.10 | 0.20 |
| 1 | 4 | 0 | 600 | | | | |
| 2 | 1 | 0 | 587 | | | | |
| 2 | 2 | 1 | 820 | 219.1 | 122.5 | 0.05 | 0.10 |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 0 | 770 | | | | |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 1 | 480 | 32.1 | 15.1 | 0.20 | 0.40 |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 18 : 1995 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For dead trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|--------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 0 | 367 | | | | |
| 1 | 3 | 1 | 620 | 142.9 | 71.5 | 0.10 | 0.25 |
| 1 | 4 | 1 | 600 | 134.0 | 92.2 | 0.10 | 0.15 |
| 2 | 1 | 0 | 587 | | | - | |
| 2 | 2 | 1 | 820 | 150.4 | 68.8 | 0.20 | 0.30 |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 0 | 770 | | | | |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 0 | 660 | | | | |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 19 : 1997 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For all trees.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 10 | 347 | 106.8 | 61.5 | 0.11 | 0.17 |
| 1 | 2 | 10 | 367 | 101.5 | 39.9 | 0.08 | 0.14 |
| 1 | 3 | 14 | 620 | 139.5 | 74.1 | 0.05 | 0.10 |
| 1 | 4 | 20 | 600 | 179.0 | 92.9 | 0.07 | 0.13 |
| 2 | 1 | 16 | 587 | 108.2 | 49.3 | 0.05 | 0.10 |
| 2 | 2 | 21 | 820 | 162.5 | 65.9 | 0.05 | 0.08 |
| 2 | 3 | 14 | 487 | 118.9 | 46.2 | 0.05 | 0.08 |
| 2 | 4 | 17 | 770 | 123.1 | 47.3 | 0.05 | 0.09 |
| 3 | 1 | 12 | 407 | 81.3 | 30.8 | 0.08 | 0.20 |
| 3 | 2 | 20 | 693 | 117.2 | 55.6 | 0.12 | 0.26 |
| 3 | 3 | 15 | 480 | 80.3 | 37.1 | 0.10 | 0.23 |
| 3 | 4 | 14 | 487 | 78.7 | 34.2 | 0.09 | 0.22 |
| 3 | 5 | 19 | 613 | 89.6 | 42.3 | 0.10 | 0.24 |
| 4 | 1 | 21 | 660 | 66.1 | 20.3 | 0.09 | 0.23 |
| 4 | 2 | 17 | 567 | 52.6 | 22.5 | 0.08 | 0.20 |
| 4 | 3 | 25 | 793 | 78.0 | 17.9 | 0.12 | 0.29 |
| 4 | 4 | 16 | 553 | 67.6 | 21.9 | 0.13 | 0.33 |
| 4 | 5 | 23 | 747 | 67.1 | 24.9 | 0.12 | 0.30 |

**Table 20 : 1997 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For live trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|--------------------|---------------------|---------------------------|-----------------------------|
| 1 | 1 | 10 | 347 | 106.8 | 61.5 | 0.11 | 0.17 |
| 1 | 2 | 10 | 367 | 101.5 | 39.9 | 0.08 | 0.14 |
| 1 | 3 | 11 | 620 | 136.4 | 70.0 | 0.05 | 0.09 |
| 1 | 4 | 15 | 600 | 183.6 | 92.9 | 0.08 | 0.14 |
| 2 | 1 | 16 | 587 | 108.2 | 49.3 | 0.05 | 0.10 |
| 2 | 2 | 19 | 820 | 160.4 | 65.9 | 0.05 | 0.09 |
| 2 | 3 | 14 | 487 | 118.9 | 46.2 | 0.05 | 0.08 |
| 2 | 4 | 16 | 770 | 121.0 | 47.3 | 0.04 | 0.09 |
| 3 | 1 | 12 | 407 | 81.3 | 30.8 | 0.08 | 0.20 |
| 3 | 2 | 20 | 693 | 117.2 | 55.6 | 0.12 | 0.26 |
| 3 | 3 | 15 | 480 | 80.3 | 37.1 | 0.10 | 0.23 |
| 3 | 4 | 14 | 487 | 78.7 | 34.2 | 0.09 | 0.22 |
| 3 | 5 | 19 | 613 | 89.6 | 42.3 | 0.10 | 0.24 |
| 4 | 1 | 19 | 660 | 66.5 | 19.8 | 0.09 | 0.22 |
| 4 | 2 | 17 | 567 | 52.6 | 22.5 | 0.08 | 0.20 |
| 4 | 3 | 25 | 793 | 78.0 | 17.9 | 0.12 | 0.29 |
| 4 | 4 | 16 | 553 | 67.6 | 21.9 | 0.13 | 0.33 |
| 4 | 5 | 23 | 747 | 67.1 | 21.9 | 0.12 | 0.30 |

**Table 21 : 1997 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill. For dying trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|---|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 0 | 367 | | | | |
| 1 | 3 | 3 | 620 | 150.9 | 89.1 | 0.06 | 0.12 |
| 1 | 4 | 1 | 600 | 174.4 | 93.5 | 0.04 | 0.09 |
| 2 | 1 | 0 | 587 | | | | |
| 2 | 2 | 0 | 820 | | | | |
| 2 | 3 | 0 | 487 | | | | |
| 2 | 4 | 0 | 770 | | | | |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 1 | 660 | 46.7 | 29.7 | 0.08 | 0.22 |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 22 : 1997 Conditions in lodgepole pine study plots: Optimum stocking in stands with topkill.**
**For dead trees only.**

| Block | Plot | # trees measured | Density trees/acre | Total BA ft2/acre | Sapwood BA ft2/acre | 5 year radial growth (in) | 10 year radial growth (in) |
|-------|------|------------------|--------------------|-------------------|---------------------|---------------------------|----------------------------|
| 1 | 1 | 0 | 347 | | | | |
| 1 | 2 | 0 | 367 | | | | |
| 1 | 3 | 0 | 620 | | | | |
| 1 | 4 | 4 | 600 | 163.1 | | 0.055 | 0.13 |
| 2 | 1 | 0 | 587 | | | | |
| 2 | 2 | 2 | 820 | 182.8 | | 0.0325 | 0.07 |
| 2 | 3 | 0 | 487 | | | | 0.17 |
| 2 | 4 | 1 | 770 | 156.3 | | 0.065 | 0.09 |
| 3 | 1 | 0 | 407 | | | | |
| 3 | 2 | 0 | 693 | | | | |
| 3 | 3 | 0 | 480 | | | | |
| 3 | 4 | 0 | 487 | | | | |
| 3 | 5 | 0 | 613 | | | | |
| 4 | 1 | 1 | 660 | 79.5 | | 0.155 | 0.41 |
| 4 | 2 | 0 | 567 | | | | |
| 4 | 3 | 0 | 793 | | | | |
| 4 | 4 | 0 | 553 | | | | |
| 4 | 5 | 0 | 747 | | | | |

**Table 23 : Percent change in sapwood basal area for sampled girdled and non-girdled lodgepole pine, 1991-1997.**

[----------------------------% change in sapwood BA compared to 1991 statistic------------------------]

| Treatment | Block | Plot | 1992 | | 1993 | | 1994 | | 1995 | | 1997 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | girdled | non- | girdled | non- | girdled | non- | girdled | non- | girdled | non- |
| 1 | 1 | 1 | | -17.5 | | -15.9 | | -9.6 | | -17.0 | | 1.2 |
| 1 | 2 | 3 | | -16.6 | | -4.6 | | 11.6 | | 31.6 | | -7.7 |
| 1 | 3 | 5 | | -31.6 | | -2.0 | | -14.4 | | -16.2 | | -7.3 |
| 1 | 4 | 5 | | -21.6 | | -24.7 | | 48.2 | | | | -22.5 |
| | | | | | | | | | | | | |
| 2 | 3 | 1 | -33.2 | 42.8 | | -21.3 | -66.3 | -16.8 | -25.1 | -50.1 | 7.0 | -42.6 |
| 2 | 4 | 4 | -41.4 | -6.8 | 9.8 | -16.8 | -10.1 | -2.6 | | | 0.5 | -41.3 |
| | | | | | | | | | | | | |
| 3 | 1 | 2 | -18.3 | -34.8 | 24.3 | 34.0 | -15.4 | 6.3 | 46.9 | -4.3 | -21.5 | -17.2 |
| 3 | 2 | 1 | -14.3 | -19.7 | 5.3 | 27.4 | 31.1 | 4.1 | 37.7 | 28.9 | -21.0 | -17.3 |
| 3 | 3 | 3 | 42.5 | -5.2 | -1.5 | -21.0 | -17.1 | -7.5 | -44.1 | -17.7 | -53.4 | -1.5 |
| 3 | 4 | 2 | -7.0 | -11.9 | -1.1 | 8.8 | -11.3 | -25.9 | | | -25.9 | -46.6 |
| | | | | | | | | | | | | |
| 4 | 1 | 3 | -50.8 | -7.5 | -55.3 | -4.6 | 0.3 | 14.4 | -23.6 | -10.9 | -20.1 | 1.8 |
| 4 | 2 | 4 | | -19.4 | 28.6 | 11.4 | -12.7 | 3.9 | 33.4 | -4.8 | | -22.9 |
| 4 | 3 | 4 | 14.5 | -16.3 | 44.6 | -7.3 | -45.4 | 26.6 | -44.5 | -41.5 | -16.6 | -39.3 |
| 4 | 4 | 3 | -2.9 | -11.8 | -51.9 | 2.1 | -14.2 | -7.0 | | | -18.2 | -58.9 |
| | | | | | | | | | | | | |
| 5 | 1 | 4 | -11.2 | -9.3 | -0.7 | 10.0 | 5.2 | -2.0 | 16.7 | 13.1 | -0.8 | 14.9 |
| 5 | 2 | 2 | -5.9 | 16.5 | -10.0 | 0.2 | 30.2 | 5.8 | 85.2 | 45.2 | -37.4 | -0.2 |
| 5 | 3 | 2 | -13.0 | -5.5 | 29.6 | 21.3 | -21.8 | -10.5 | -39.2 | -45.3 | -44.2 | -22.9 |
| 5 | 4 | 1 | 19.5 | 2.9 | -2.8 | 10.3 | -15.7 | -22.7 | | | -46.7 | -48.8 |

**Table 24 : Total sapwood basal area and change in sapwood basal area for girdled and non-girdled lodgepole pine 1991-1997.**

Sapwood Basal Area (square feet)

| Treatment | Block | Plot | 1991 Total | 1992 Total | 1992 girdled | 1992 non-girdled | 1993 Total | 1993 girdled | 1993 non-girdled | 1994 Total | 1994 girdled | 1994 non-girdled | 1995 Total | 1995 girdled | 1995 non-girdled | 1997 Total | 1997 girdled | 1997 non-girdled |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 60.76 | 50.12 | | -10.64 | 51.09 | | -9.66 | 54.92 | | -5.84 | 50.42 | | -10.33 | 61.51 | | 0.76 |
| 1 | 2 | 3 | 50.04 | 41.76 | | -8.29 | 47.72 | | -2.32 | 55.87 | | 5.83 | 65.87 | | 15.83 | 46.21 | | -3.83 |
| 1 | 3 | 5 | 45.71 | 31.26 | | -14.44 | 44.78 | | -0.93 | 39.13 | | -6.58 | 38.32 | | -7.38 | 42.35 | | -3.36 |
| 1 | 4 | 5 | 28.30 | 22.18 | | -6.11 | 21.31 | | -6.99 | 41.94 | | 13.65 | | | | 21.92 | | -6.37 |
| 2 | 3 | 1 | 33.88 | 48.38 | | 14.50 | 26.66 | | -7.22 | 28.18 | | -5.70 | 16.91 | | -16.98 | 19.46 | | -14.43 |
| 2 | 3 | 1 | 8.93 | 5.97 | -2.96 | | | | | 3.01 | -5.92 | | 6.69 | -2.24 | | 9.56 | 0.62 | |
| 2 | 4 | 4 | 24.07 | 22.43 | | -1.64 | 20.02 | | -4.05 | 23.44 | | -0.63 | | | | 14.13 | | -9.94 |
| 2 | 4 | 4 | 5.47 | 3.21 | -2.26 | | 6.01 | 0.54 | | 4.92 | -0.55 | | | | | 5.50 | 0.03 | |
| 3 | 1 | 2 | 28.65 | 18.67 | | -9.98 | 38.40 | | 9.75 | 30.45 | | 1.80 | 27.43 | | -1.22 | 23.72 | | -4.93 |
| 3 | 1 | 2 | 20.66 | 16.88 | -3.78 | | 25.68 | 5.02 | | 17.47 | -3.19 | | 30.35 | 9.70 | | 16.21 | -4.44 | |
| 3 | 2 | 1 | 35.31 | 28.35 | | -6.96 | 44.99 | | 9.69 | 36.74 | | 1.43 | 45.51 | | 10.20 | 29.18 | | -6.13 |
| 3 | 2 | 1 | 25.35 | 21.72 | -3.63 | | 26.68 | 1.33 | | 33.24 | 7.89 | | 34.91 | 9.56 | | 20.02 | -5.32 | |
| 3 | 3 | 3 | 28.17 | 26.71 | | -1.46 | 22.26 | | -5.91 | 26.06 | | -2.11 | 23.17 | | -5.00 | 27.74 | | -0.43 |
| 3 | 3 | 3 | 15.42 | 21.98 | 6.56 | | 15.19 | -0.23 | | 12.78 | -2.64 | | 8.62 | -6.80 | | 7.18 | -8.24 | |
| 3 | 4 | 2 | 17.64 | 15.54 | | -2.10 | 19.20 | | 1.56 | 13.07 | | -4.57 | | | | 9.43 | | -8.21 |
| 3 | 4 | 2 | 13.83 | 12.86 | -0.97 | | 13.68 | -0.15 | | 12.27 | -1.56 | | | | | 10.25 | -3.58 | |
| 4 | 1 | 3 | 61.04 | 56.46 | | -4.58 | 58.26 | | -2.78 | 69.86 | | 8.82 | 54.40 | | -6.65 | 62.13 | | 1.09 |
| 4 | 1 | 3 | 12.57 | 6.18 | -6.39 | | 5.62 | -6.95 | | 12.61 | 0.04 | | 9.61 | -2.96 | | 10.05 | -2.52 | |
| 4 | 2 | 4 | 57.41 | 46.27 | | -11.13 | 63.97 | | 6.57 | 59.63 | | 2.22 | 54.66 | | -2.74 | 44.25 | | -13.15 |
| 4 | 2 | 4 | 6.47 | | | | 8.32 | 1.85 | | 5.65 | -0.82 | | 8.63 | 2.16 | | | | |
| 4 | ·3 | 4 | 39.99 | 33.47 | | -6.52 | 37.07 | | -2.92 | 50.63 | | 10.64 | 23.38 | | -16.61 | 24.28 | | -15.71 |
| 4 | 3 | 4 | 12.23 | 14.00 | 1.77 | | 17.68 | 5.46 | | 6.68 | -5.55 | | 6.78 | -5.44 | | 10.19 | -2.03 | |
| 4 | 4 | 3 | 28.51 | 25.14 | | -3.37 | 29.11 | | 0.60 | 26.51 | | -2.00 | | | | 11.72 | | -16.79 |
| 4 | 4 | 3 | 8.85 | 8.59 | -0.26 | | 4.26 | -4.59 | | 7.60 | -1.25 | | | | | 7.24 | -1.61 | |
| 5 | 1 | 4 | 49.53 | 44.95 | | -4.59 | 54.49 | | 4.96 | 48.54 | | -0.99 | 56.02 | | 6.49 | 56.90 | | 7.37 |
| 5 | 1 | 4 | 35.17 | 31.23 | -3.94 | | 34.94 | -0.23 | | 36.99 | 1.82 | | 41.03 | 5.87 | | 34.88 | -0.29 | |
| 5 | 2 | 2 | 40.58 | 47.28 | | 6.70 | 40.68 | | 0.10 | 42.92 | | 2.34 | 58.93 | | 18.35 | 40.49 | | -0.09 |
| 5 | 2 | 2 | 26.41 | 24.86 | -1.55 | | 23.77 | -2.65 | | 34.40 | 7.99 | | 48.91 | 22.49 | | 16.53 | -9.88 | |
| 5· | 3 | 2 | 50.39 | 47.61 | | -2.79 | 61.15 | | 10.76 | 45.11 | | -5.28 | 27.58 | | -22.81 | 38.83 | | -11.56 |
| 5 | 3 | 2 | 28.94 | 25.19 | -3.75 | | 37.51 | 8.57 | | 22.62 | -6.31 | | 17.60 | -11.33 | | 16.16 | -12.78 | |
| 5 | 4 | 1 | 22.39 | 23.04 | | 0.65 | 24.70 | | 2.31 | 17.31 | | -5.08 | | | | 11.46 | | -10.93 |
| 5 | 4 | 1 | 16.89 | 20.19 | 3.30 | | 16.42 | -0.47 | | 14.25 | -2.64 | | | | | 9.00 | -7.88 | |

*Combined Data Set 90-87*

```
title'Listing of  Ident (1990) + Observed (1991-97)';
options ls=80 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
proc print;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag       DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc print;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
proc print;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CR
NTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
drop stat92x;
proc print;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CR
NTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
drop stat93x;
proc print;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
proc print;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
proc print;
```

```
1                                              The SAS System
              08:11 Thursday, October 15, 1998

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12   TS045
      Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


      Welcome to SAS 6.12 TS-045!!  Installed February 1998.

      This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
      IML, INSIGHT, OR, QC, STAT and TUTOR options.

      The SAS software is for University use only, and may not be used
      for any commerical purposes.




NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
      real time           4.09 seconds
      cpu time            0.15 seconds

NOTE: DM statements are only valid in DMS mode.
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

1           title'Listing of  Ident (1990) + Observed (1991-97)';
2           options ls=80 ps=55;
3           data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
4           input block plot tag east north crown dbh90 rank grd_tree girdle;
5           if block=1 and plot=1 then treat=1;
6           if block=1 and plot=2 then treat=3;
7           if block=1 and plot=3 then treat=4;
8           if block=1 and plot=4 then treat=5;
9           if block=2 and plot=1 then treat=3;
10          if block=2 and plot=2 then treat=5;
11          if block=2 and plot=3 then treat=1;
12          if block=2 and plot=4 then treat=4;
13          if block=3 and plot=1 then treat=2;
14          if block=3 and plot=2 then treat=5;
15          if block=3 and plot=3 then treat=3;
16          if block=3 and plot=4 then treat=4;
17          if block=3 and plot=5 then treat=1;
18          if block=4 and plot=1 then treat=5;
19          if block=4 and plot=2 then treat=3;
20          if block=4 and plot=3 then treat=4;
21          if block=4 and plot=4 then treat=2;
22          if block=4 and plot=5 then treat=1;
```

```
2                                 The SAS System 08:11 Thursday, October 15, 1998

NOTE: The infile '90.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
      The minimum record length was 20.
      The maximum record length was 27.
NOTE: The data set WORK.T90 has 1841 observations and 11 variables.
NOTE: DATA statement used:
      real time           1.96 seconds
      cpu time            0.25 seconds


23          proc print;

NOTE: The PROCEDURE PRINT printed pages 1-37.
NOTE: PROCEDURE PRINT used:
      real time           0.61 seconds
      cpu time            0.34 seconds


24          proc sort; by block plot tag;

NOTE: The data set WORK.T90 has 1841 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time           0.46 seconds
      cpu time            0.09 seconds

25          data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
26          input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591
STMLN91 CRNHT91 CRNWD91;
27          CRNTP91=STMLN91; drop CRNWD91;

NOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time           0.46 seconds
      cpu time            0.15 seconds


28          proc print;
```

3                                    The SAS System 08:11 Thursday, October 15, 1998

NOTE: The PROCEDURE PRINT printed pages 38-68.
NOTE: PROCEDURE PRINT used:
      real time            0.66 seconds
      cpu time             0.43 seconds


29        proc sort; by block plot tag;

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time            0.26 seconds
      cpu time             0.06 seconds


30        data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
31        input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592
STMLN92 CRNHT92 CRNTP92;

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 341 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.24 seconds
      cpu time             0.05 seconds


32        proc print;

NOTE: The PROCEDURE PRINT printed pages 69-76.
NOTE: PROCEDURE PRINT used:
      real time            0.15 seconds
      cpu time             0.12 seconds


33        proc sort; by block plot tag;

NOTE: The data set WORK.T92 has 341 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.16 seconds
      cpu time             0.02 seconds


34        data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
35        input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093

4                                    The SAS System 08:11 Thursday, October 15, 1998

RAD0593 STMLN93 CRNHT93 CRNTP93;
36        sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20;
hrt93=hrt93/20;
37        drop stat92x;

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.22 seconds
      cpu time             0.05 seconds


38        proc print;

NOTE: The PROCEDURE PRINT printed pages 77-84.
NOTE: PROCEDURE PRINT used:
      real time            0.11 seconds
      cpu time             0.11 seconds


39        proc sort; by block plot tag;

NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.13 seconds
      cpu time             0.04 seconds


40        data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
41        input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094
RAD0594 STMLN94 CRNHT94 CRNTP94;
42        sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20;
hrt94=hrt94/20;
43        drop stat93x;

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.

5                          The SAS System 08:11 Thursday, October 15, 1998

NOTE: Missing values were generated as a result of performing an operation on
      missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      3 at 42:12    3 at 42:32    3 at 42:51    3 at 42:67
NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: DATA statement used:
      real time          0.22 seconds
      cpu time           0.07 seconds


44          proc print;

NOTE: The PROCEDURE PRINT printed pages 85-91.
NOTE: PROCEDURE PRINT used:
      real time          0.10 seconds
      cpu time           0.10 seconds


45          proc sort; by block plot tag;

NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time          0.15 seconds
      cpu time           0.03 seconds


46          data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
47          input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095
STMLN95 CRNHT95 CRNTP95;
48          sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20;
hrt95=hrt95/20;

NOTE: The infile '95.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
      The minimum record length was 31.
      The maximum record length was 42.
NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: DATA statement used:
      real time          0.17 seconds
      cpu time           0.04 seconds


49          proc print;

NOTE: The PROCEDURE PRINT printed pages 92-96.
NOTE: PROCEDURE PRINT used:
      real time          0.11 seconds

6                          The SAS System 08:11 Thursday, October 15, 1998

      cpu time           0.08 seconds


50          proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time          0.12 seconds
      cpu time           0.03 seconds


51          data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
52          input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097
STMLN97 CRNTP97 CRNHT97;
53          sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20;
hrt97=hrt97/20;

NOTE: The infile '97.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=11868

NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on
      missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      8 at 53:12    11 at 53:32    10 at 53:51    8 at 53:67
NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: DATA statement used:
      real time          0.17 seconds
      cpu time           0.07 seconds


54          proc print;
NOTE: The PROCEDURE PRINT printed pages 97-103.
NOTE: PROCEDURE PRINT used:
      real time          0.10 seconds
      cpu time           0.10 seconds


NOTE: The SAS System used:
      real time          11.33 seconds
      cpu time           2.44 seconds


NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 98 | 59 | 2 | 6.9 | 2 | 0 | . | 1 |
| 2 | 1 | 1 | 2 | 95 | 57 | 2 | 7.0 | 2 | 0 | . | 1 |
| 3 | 1 | 1 | 3 | 84 | 54 | 2 | 5.9 | 2 | 0 | . | 1 |
| 4 | 1 | 1 | 4 | 92 | 60 | 2 | 6.4 | 2 | 0 | . | 1 |
| 5 | 1 | 1 | 5 | . | . | 2 | 7.0 | `3 | 2 | . | 1 |
| 6 | 1 | 1 | 6 | . | . | 3 | 5.2 | 4 | 2 | . | 1 |
| 7 | 1 | 1 | 7 | . | . | 3 | 4.5 | 4 | 2 | . | 1 |
| 8 | 1 | 1 | 8 | 77 | 58 | 2 | 7.5 | 2 | 0 | . | 1 |
| 9 | 1 | 1 | 9 | 74 | 62 | 2 | 7.4 | 2 | 0 | . | 1 |
| 10 | 1 | 1 | 10 | 68 | 56 | 2 | 6.6 | 2 | 0 | . | 1 |
| 11 | 1 | 1 | 11 | 64 | 50 | 2 | 8.4 | 1 | 0 | . | 1 |
| 12 | 1 | 1 | 12 | . | . | 2 | 5.6 | 3 | 2 | . | 1 |
| 13 | 1 | 1 | 13 | . | . | 2 | 5.6 | 3 | 2 | . | 1 |
| 14 | 1 | 1 | 14 | 54 | 60 | 2 | 6.5 | 2 | 0 | . | 1 |
| 15 | 1 | 1 | 15 | . | . | 3 | 4.0 | 4 | 2 | . | 1 |
| 16 | 1 | 1 | 16 | . | . | 2 | 7.9 | 3 | 2 | . | 1 |
| 17 | 1 | 1 | 17 | 41 | 53 | 2 | 7.4 | 2 | 0 | . | 1 |
| 18 | 1 | 1 | 18 | 40 | 43 | 2 | 6.9 | 2 | 0 | . | 1 |
| 19 | 1 | 1 | 19 | 32 | 51 | 2 | 8.5 | 2 | 0 | . | 1 |
| 20 | 1 | 1 | 20 | . | . | 2 | 5.4 | 3 | 2 | . | 1 |
| 21 | 1 | 1 | 21 | 20 | 65 | 2 | 6.4 | 2 | 0 | . | 1 |
| 22 | 1 | 1 | 22 | 14 | 60 | 2 | 9.4 | 2 | 0 | . | 1 |
| 23 | 1 | 1 | 23 | 12 | 49 | 2 | 5.9 | 2 | 0 | . | 1 |
| 24 | 1 | 1 | 24 | 6 | 44 | 2 | 8.4 | 2 | 0 | . | 1 |
| 25 | 1 | 1 | 25 | 2 | 49 | 2 | 9.2 | 1 | 0 | . | 1 |
| 26 | 1 | 1 | 26 | 91 | 36 | 2 | 7.4 | 2 | 0 | . | 1 |
| 27 | 1 | 1 | 27 | 90 | 31 | 2 | 8.4 | 2 | 0 | . | 1 |
| 28 | 1 | 1 | 28 | . | . | 3 | 2.9 | 4 | 2 | . | 1 |
| 29 | 1 | 1 | 29 | 84 | 23 | 2 | 8.0 | 2 | 0 | . | 1 |
| 30 | 1 | 1 | 30 | 81 | 31 | 2 | 5.4 | 2 | 0 | . | 1 |
| 31 | 1 | 1 | 31 | . | . | 3 | 4.0 | 3 | 2 | . | 1 |
| 32 | 1 | 1 | 32 | 85 | 41 | 2 | 7.5 | 2 | 0 | . | 1 |
| 33 | 1 | 1 | 33 | 78 | 41 | 2 | 7.0 | 2 | 0 | . | 1 |
| 34 | 1 | 1 | 34 | 75 | 25 | 2 | 6.4 | 2 | 0 | . | 1 |
| 35 | 1 | 1 | 35 | 68 | 24 | 2 | 7.0 | 2 | 0 | . | 1 |
| 36 | 1 | 1 | 36 | . | . | 3 | 3.4 | 3 | 2 | . | 1 |
| 37 | 1 | 1 | 37 | . | . | 2 | 8.1 | 4 | 2 | . | 1 |
| 38 | 1 | 1 | 38 | 55 | 36 | 2 | 5.7 | 2 | 0 | . | 1 |
| 39 | 1 | 1 | 39 | 48 | 27 | 2 | 6.8 | 2 | 0 | . | 1 |
| 40 | 1 | 1 | 40 | 49 | 34 | 2 | 6.4 | 2 | 0 | . | 1 |
| 41 | 1 | 1 | 41 | 40 | 34 | 2 | 6.5 | 2 | 0 | . | 1 |
| 42 | 1 | 1 | 42 | 39 | 27 | 2 | 6.8 | 2 | 0 | . | 1 |
| 43 | 1 | 1 | 43 | 30 | 38 | 2 | 7.4 | 2 | 0 | . | 1 |
| 44 | 1 | 1 | 44 | 29 | 29 | 2 | 6.4 | 2 | 0 | . | 1 |
| 45 | 1 | 1 | 45 | 24 | 24 | 2 | 6.6 | 2 | 0 | . | 1 |
| 46 | 1 | 1 | 46 | 21 | 38 | 2 | 7.2 | 2 | 0 | . | 1 |
| 47 | 1 | 1 | 47 | 23 | 47 | 2 | 7.5 | 2 | 0 | . | 1 |
| 48 | 1 | 1 | 48 | 11 | 30 | 2 | 7.0 | 2 | 0 | . | 1 |
| 49 | 1 | 1 | 49 | . | . | 2 | 7.8 | 3 | 2 | . | 1 |
| 50 | 1 | 1 | 50 | 1 | 32 | 2 | 7.5 | 2 | 0 | . | 1 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 51 | 1 | 1 | 51 | . | . | 2 | 6.5 | 3 | 2 | . | 1 |
| 52 | 1 | 1 | 52 | 65 | 12 | 2 | 7.3 | 2 | 0 | . | -1 |
| 53 | 1 | 1 | 53 | . | . | 2 | 5.5 | 3 | 2 | . | 1 |
| 54 | 1 | 1 | 54 | 56 | 17 | 2 | 5.7 | 2 | 0 | . | 1 |
| 55 | 1 | 1 | 55 | 54 | 24 | 2 | 5.9 | 2 | 0 | . | 1 |
| 56 | 1 | 1 | 56 | . | . | 2 | 6.9 | 3 | 2 | . | 1 |
| 57 | 1 | 1 | 57 | 51 | 11 | 2 | 6.5 | 2 | 0 | . | 1 |
| 58 | 1 | 1 | 58 | 50 | 2 | 2 | 8.0 | 3 | 0 | . | 1 |
| 59 | 1 | 1 | 59 | 39 | 3 | 2 | 8.8 | 3 | 0 | . | 1 |
| 60 | 1 | 1 | 60 | 37 | 14 | 2 | 7.5 | 2 | 0 | . | 1 |
| 61 | 1 | 1 | 61 | 31 | 16 | 2 | 7.4 | 2 | 0 | . | 1 |
| 62 | 1 | 1 | 62 | 29 | 1 | 2 | 7.2 | 2 | 0 | . | 1 |
| 63 | 1 | 1 | 63 | . | . | 2 | 7.7 | 3 | 2 | . | 1 |
| 64 | 1 | 1 | 64 | 21 | 11 | 2 | 7.6 | 2 | 0 | . | 1 |
| 65 | 1 | 1 | 65 | 23 | 18 | 2 | 5.4 | 2 | 0 | . | 1 |
| 66 | 1 | 1 | 66 | 19 | 25 | 2 | 6.9 | 3 | 0 | . | 1 |
| 67 | 1 | 1 | 67 | 15 | 18 | 2 | 9.0 | 3 | 0 | . | 1 |
| 68 | 1 | 1 | 68 | . | . | 2 | 5.9 | 3 | 2 | . | 1 |
| 69 | 1 | 1 | 69 | . | . | 2 | 4.7 | 3 | 2 | . | 1 |
| 70 | 1 | 1 | 70 | 8 | 10 | 2 | 7.1 | 3 | 0 | . | 1 |
| 71 | 1 | 1 | 71 | . | . | 2 | 6.5 | 3 | 2 | . | 1 |
| 72 | 1 | 1 | 72 | 1 | 11 | 2 | 7.1 | 2 | 0 | . | 1 |
| 73 | 1 | 2 | 73 | 66 | 3 | 2 | 9.0 | 2 | 1 | 25 | 3 |
| 74 | 1 | 2 | 74 | . | . | 2 | 5.8 | 2 | 2 | . | 3 |
| 75 | 1 | 2 | 75 | 45 | 0 | 2 | 7.7 | 2 | 0 | . | 3 |
| 76 | 1 | 2 | 76 | 44 | 8 | 2 | 7.6 | 2 | 0 | . | 3 |
| 77 | 1 | 2 | 77 | 53 | 9 | 2 | 7.9 | 2 | 0 | . | 3 |
| 78 | 1 | 2 | 78 | . | . | 2 | 4.6 | 2 | 2 | . | 3 |
| 79 | 1 | 2 | 79 | 48 | 14 | 2 | 7.2 | 2 | 0 | . | 3 |
| 80 | 1 | 2 | 80 | 60 | 17 | 2 | 7.1 | 2 | 0 | . | 3 |
| 81 | 1 | 2 | 81 | . | . | 2 | 6.9 | 2 | 2 | . | 3 |
| 82 | 1 | 2 | 82 | 59 | 23 | 2 | 8.5 | 2 | 0 | . | 3 |
| 83 | 1 | 2 | 83 | 46 | 24 | 2 | 7.5 | 2 | 0 | . | 3 |
| 84 | 1 | 2 | 84 | 54 | 28 | 2 | 7.0 | 2 | 0 | . | 3 |
| 85 | 1 | 2 | 85 | . | . | 2 | 6.2 | 2 | 2 | . | 3 |
| 86 | 1 | 2 | 86 | 65 | 34 | 2 | 6.5 | 2 | 1 | 23 | 3 |
| 87 | 1 | 2 | 87 | 63 | 43 | 2 | 6.8 | 2 | 0 | . | 3 |
| 88 | 1 | 2 | 88 | . | . | 2 | 4.6 | 2 | 2 | . | 3 |
| 89 | 1 | 2 | 89 | 42 | 36 | 2 | 6.4 | 2 | 0 | . | 3 |
| 90 | 1 | 2 | 90 | 42 | 45 | 2 | 6.5 | 2 | 0 | . | 3 |
| 91 | 1 | 2 | 91 | . | . | 2 | 6.3 | 2 | 2 | . | 3 |
| 92 | 1 | 2 | 92 | 55 | 49 | 2 | 7.5 | 2 | 0 | . | 3 |
| 93 | 1 | 2 | 93 | . | . | 3 | 5.7 | 4 | 2 | . | 3 |
| 94 | 1 | 2 | 94 | 63 | 62 | 2 | 6.5 | 2 | 1 | 25 | 3 |
| 95 | 1 | 2 | 95 | 58 | 62 | 2 | 7.2 | 2 | 0 | . | 3 |
| 96 | 1 | 2 | 96 | 51 | 61 | 2 | 6.9 | 2 | 0 | . | 3 |
| 97 | 1 | 2 | 97 | . | . | 2 | 4.9 | 2 | 2 | . | 3 |
| 98 | 1 | 2 | 98 | 43 | 63 | 2 | 6.1 | 2 | 1 | 19 | 3 |
| 99 | 1 | 2 | 99 | 41 | 68 | 2 | 8.0 | 2 | 1 | 25 | 3 |
| 100 | 1 | 2 | 100 | . | . | 2 | 4.8 | 2 | 2 | . | 3 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 101 | 1 | 2 | 101 | 40 | 80 | 2 | 7.1 | 2 | 0 | . | 3 |
| 102 | 1 | 2 | 102 | 55 | 77 | 2 | 7.1 | 2 | 0 | . | 3 |
| 103 | 1 | 2 | 103 | . | . | 2 | 5.7 | 2 | 2 | . | 3 |
| 104 | 1 | 2 | 104 | 56 | 87 | 2 | 6.2 | 2 | 1 | 20 | 3 |
| 105 | 1 | 2 | 105 | . | . | 3 | 6.2 | 4 | 2 | . | 3 |
| 106 | 1 | 2 | 106 | 45 | 86 | 2 | 6.4 | 2 | 1 | 25 | 3 |
| 107 | 1 | 2 | 107 | 38 | 84 | 2 | 7.2 | 2 | 1 | 29 | 3 |
| 108 | 1 | 2 | 108 | . | . | 2 | 6.5 | 2 | 2 | . | 3 |
| 109 | 1 | 2 | 109 | . | . | 2 | 5.5 | 2 | 2 | . | 3 |
| 110 | 1 | 2 | 110 | 46 | 97 | 2 | 8.0 | 2 | 1 | 24 | 3 |
| 111 | 1 | 2 | 111 | . | . | 2 | 4.8 | 3 | 2 | . | 3 |
| 112 | 1 | 2 | 112 | 57 | 93 | 2 | 8.0 | 2 | 1 | 29 | 3 |
| 113 | 1 | 2 | 113 | 37 | 5 | 2 | 6.1 | 2 | 1 | 25 | 3 |
| 114 | 1 | 2 | 114 | . | . | 2 | 5.1 | 2 | 2 | . | 3 |
| 115 | 1 | 2 | 115 | 25 | 5 | 2 | 7.4 | 2 | 1 | 27 | 3 |
| 116 | 1 | 2 | 116 | 34 | 14 | 2 | 7.3 | 2 | 1 | 22 | 3 |
| 117 | 1 | 2 | 117 | 27 | 13 | 2 | 8.6 | 1 | 1 | 30 | 3 |
| 118 | 1 | 2 | 118 | 22 | 19 | 2 | 6.3 | 2 | 0 | . | 3 |
| 119 | 1 | 2 | 119 | . | . | 2 | 6.0 | 2 | 2 | . | 3 |
| 120 | 1 | 2 | 120 | 34 | 29 | 2 | 7.6 | 1 | 0 | . | 3 |
| 121 | 1 | 2 | 121 | 26 | 37 | 2 | 6.9 | 2 | 1 | 20 | 3 |
| 122 | 1 | 2 | 122 | . | . | 3 | 5.2 | 2 | 2 | . | 3 |
| 123 | 1 | 2 | 123 | . | . | 3 | 5.3 | 4 | 2 | . | 3 |
| 124 | 1 | 2 | 124 | 41 | 53 | 2 | 7.4 | 1 | 1 | 21 | 3 |
| 125 | 1 | 2 | 125 | . | . | 2 | 6.1 | 3 | 2 | . | 3 |
| 126 | 1 | 2 | 126 | 29 | 61 | 2 | 6.4 | 2 | 0 | . | 3 |
| 127 | 1 | 2 | 127 | . | . | 3 | 3.2 | 3 | 2 | . | 3 |
| 128 | 1 | 2 | 128 | 30 | 72 | 2 | 6.4 | 2 | 1 | 21 | 3 |
| 129 | 1 | 2 | 129 | . | . | 3 | 4.3 | 3 | 2 | . | 3 |
| 130 | 1 | 2 | 130 | . | . | 2 | 5.5 | 3 | 2 | . | 3 |
| 131 | 1 | 2 | 131 | 17 | 79 | 2 | 6.4 | 2 | 0 | . | 3 |
| 132 | 1 | 2 | 132 | . | . | 2 | 5.7 | 2 | 2 | . | 3 |
| 133 | 1 | 2 | 133 | 22 | 87 | 2 | 8.1 | 1 | 0 | . | 3 |
| 134 | 1 | 2 | 134 | . | . | 2 | 5.5 | 2 | 2 | . | 3 |
| 135 | 1 | 2 | 135 | 18 | 98 | 2 | 6.6 | 2 | 0 | . | 3 |
| 136 | 1 | 2 | 136 | 11 | 5 | 2 | 6.3 | 2 | 0 | . | 3 |
| 137 | 1 | 2 | 137 | 15 | 11 | 2 | 7.5 | 2 | 0 | . | 3 |
| 138 | 1 | 2 | 138 | . | . | 2 | 5.2 | 2 | 2 | . | 3 |
| 139 | 1 | 2 | 139 | . | . | 2 | 5.7 | 2 | 2 | . | 3 |
| 140 | 1 | 2 | 140 | 14 | 25 | 2 | 5.9 | 2 | 0 | . | 3 |
| 141 | 1 | 2 | 141 | 13 | 30 | 2 | 7.0 | 2 | 1 | 20 | 3 |
| 142 | 1 | 2 | 142 | . | . | 3 | 4.1 | 2 | 2 | . | 3 |
| 143 | 1 | 2 | 143 | 1 | 40 | 2 | 6.3 | 2 | 1 | 20 | 3 |
| 144 | 1 | 2 | 144 | . | . | 2 | 6.4 | 3 | 2 | . | 3 |
| 145 | 1 | 2 | 145 | 15 | 37 | 2 | 7.4 | 2 | 1 | 24 | 3 |
| 146 | 1 | 2 | 146 | . | . | 2 | 6.5 | 3 | 2 | . | 3 |
| 147 | 1 | 2 | 147 | 17 | 51 | 2 | 6.7 | 2 | 0 | . | 3 |
| 148 | 1 | 2 | 148 | 12 | 47 | 2 | 8.0 | 1 | 1 | 32 | 3 |
| 149 | 1 | 2 | 149 | . | . | 3 | 3.6 | 3 | 2 | . | 3 |
| 150 | 1 | 2 | 150 | 8 | 51 | 2 | 7.2 | 2 | 1 | 23 | 3 |
| 151 | 1 | 2 | 151 | . | . | 3 | 4.3 | 3 | 2 | . | 3 |
| 152 | 1 | 2 | 152 | 12 | 64 | 2 | 6.9 | 2 | 0 | . | 3 |
| 153 | 1 | 2 | 153 | . | . | 3 | 3.8 | 4 | 2 | . | 3 |
| 154 | 1 | 2 | 154 | 3 | 72 | 2 | 6.5 | 2 | 0 | . | 3 |
| 155 | 1 | 2 | 155 | 16 | 67 | 2 | 7.9 | 1 | 0 | . | 3 |
| 156 | 1 | 2 | 156 | . | . | 2 | 6.3 | 2 | 2 | . | 3 |
| 157 | 1 | 2 | 157 | 10 | 75 | 2 | 6.7 | 2 | 0 | . | 3 |
| 158 | 1 | 2 | 158 | 5 | 34 | 2 | 6.8 | 2 | 0 | . | 3 |
| 159 | 1 | 2 | 159 | 11 | 87 | 2 | 6.4 | 2 | 0 | . | 3 |
| 160 | 1 | 2 | 160 | . | . | 2 | 5.4 | 2 | 2 | . | 3 |
| 161 | 1 | 2 | 161 | 3 | 90 | 2 | 6.7 | 2 | 0 | . | 3 |
| 162 | 1 | 2 | 162 | . | . | 2 | 5.1 | 2 | 2 | . | 3 |
| 163 | 1 | 3 | 163 | 62 | 6 | 2 | 6.4 | 1 | 0 | . | 4 |
| 164 | 1 | 3 | 164 | 52 | 1 | 2 | 7.0 | 1 | 0 | . | 4 |
| 165 | 1 | 3 | 165 | . | . | 3 | 4.1 | 4 | 2 | . | 4 |
| 166 | 1 | 3 | 166 | . | . | 2 | 6.8 | 4 | 2 | . | 4 |
| 167 | 1 | 3 | 167 | 40 | 15 | 2 | 7.6 | 1 | 1 | 25 | 4 |
| 168 | 1 | 3 | 168 | 47 | 13 | 2 | 4.7 | 2 | 0 | . | 4 |
| 169 | 1 | 3 | 169 | 53 | 8 | 2 | 5.3 | 2 | 0 | . | 4 |
| 170 | 1 | 3 | 170 | 57 | 14 | 2 | 6.3 | 1 | 0 | . | 4 |
| 171 | 1 | 3 | 171 | 59 | 17 | 2 | 5.0 | 2 | 0 | . | 4 |
| 172 | 1 | 3 | 172 | 48 | 18 | 2 | 6.5 | 1 | 0 | . | 4 |
| 173 | 1 | 3 | 173 | 43 | 22 | 2 | 5.5 | 1 | 0 | . | 4 |
| 174 | 1 | 3 | 174 | 50 | 26 | 2 | 6.1 | 1 | 0 | . | 4 |
| 175 | 1 | 3 | 175 | 55 | 25 | 2 | 4.1 | 2 | 0 | . | 4 |
| 176 | 1 | 3 | 176 | 65 | 21 | 2 | 5.1 | 2 | 0 | . | 4 |
| 177 | 1 | 3 | 177 | 64 | 30 | 2 | 5.4 | 2 | 0 | . | 4 |
| 178 | 1 | 3 | 178 | 59 | 28 | 2 | 5.0 | 2 | 0 | . | 4 |
| 179 | 1 | 3 | 179 | . | . | 2 | 6.1 | 2 | 2 | . | 4 |
| 180 | 1 | 3 | 180 | 47 | 31 | 2 | 6.6 | 1 | 0 | . | 4 |
| 181 | 1 | 3 | 181 | 41 | 29 | 3 | 5.4 | 2 | 0 | . | 4 |
| 182 | 1 | 3 | 182 | 42 | 37 | 2 | 6.5 | 1 | 0 | . | 4 |
| 183 | 1 | 3 | 183 | . | . | 3 | 2.6 | 4 | 2 | . | 4 |
| 184 | 1 | 3 | 184 | 54 | 42 | 2 | 5.7 | 2 | 0 | . | 4 |
| 185 | 1 | 3 | 185 | 61 | 39 | 2 | 6.4 | 1 | 0 | . | 4 |
| 186 | 1 | 3 | 186 | 62 | 45 | 2 | 6.5 | 1 | 1 | 23 | 4 |
| 187 | 1 | 3 | 187 | 55 | 50 | 3 | 5.9 | 1 | 0 | . | 4 |
| 188 | 1 | 3 | 188 | 44 | 48 | 2 | 5.8 | 2 | 0 | . | 4 |
| 189 | 1 | 3 | 189 | 43 | 54 | 2 | 7.1 | 1 | 1 | 26 | 4 |
| 190 | 1 | 3 | 190 | . | . | 3 | 2.8 | 4 | 2 | . | 4 |
| 191 | 1 | 3 | 191 | . | . | 3 | 3.8 | 3 | 2 | . | 4 |
| 192 | 1 | 3 | 192 | 40 | 59 | 2 | 6.0 | 2 | 0 | . | 4 |
| 193 | 1 | 3 | 193 | 45 | 62 | 3 | 4.0 | 2 | 0 | . | 4 |
| 194 | 1 | 3 | 194 | 53 | 61 | 2 | 6.4 | 1 | 0 | . | 4 |
| 195 | 1 | 3 | 195 | 60 | 57 | 3 | 4.1 | 2 | 0 | . | 4 |
| 196 | 1 | 3 | 196 | 62 | 62 | 2 | 8.6 | 1 | 1 | 23 | 4 |
| 197 | 1 | 3 | 197 | 30 | 3 | 2 | 9.0 | 1 | 0 | . | 4 |
| 198 | 1 | 3 | 198 | 16 | 10 | 2 | 8.1 | 1 | 0 | . | 4 |
| 199 | 1 | 3 | 199 | 3 | 7 | 2 | 6.5 | 2 | 0 | . | 4 |
| 200 | 1 | 3 | 200 | . | . | 2 | 5.5 | 2 | 2 | . | 4 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 201 | 1 | 3 | 201 | 15 | 16 | 2 | 7.2 | 1 | 0 | . | 4 |
| 202 | 1 | 3 | 202 | 25 | 16 | 2 | 7.4 | 1 | 0 | . | 4 |
| 203 | 1 | 3 | 203 | 33 | 15 | 2 | 6.0 | 2 | 0 | . | 4 |
| 204 | 1 | 3 | 204 | . | . | 2 | 3.9 | 1 | 2 | . | 4 |
| 205 | 1 | 3 | 205 | 31 | 23 | 2 | 6.8 | 1 | 1 | 25 | 4 |
| 206 | 1 | 3 | 206 | . | . | 3 | 4.2 | 3 | 2 | . | 4 |
| 207 | 1 | 3 | 207 | . | . | 2 | 6.0 | 3 | 2 | . | 4 |
| 208 | 1 | 3 | 208 | 12 | 23 | 2 | 6.3 | 2 | 0 | . | 4 |
| 209 | 1 | 3 | 209 | 5 | 22 | 2 | 5.9 | 2 | 0 | . | 4 |
| 210 | 1 | 3 | 210 | 9 | 26 | 2 | 6.3 | 1 | 1 | 26 | 4 |
| 211 | 1 | 3 | 211 | 4 | 32 | 2 | 6.9 | 2 | 0 | . | 4 |
| 212 | 1 | 3 | 212 | 22 | 29 | 2 | 6.4 | 1 | 0 | . | 4 |
| 213 | 1 | 3 | 213 | . | . | 2 | 6.5 | 4 | 2 | . | 4 |
| 214 | 1 | 3 | 214 | 34 | 32 | 2 | 7.5 | 2 | 0 | . | 4 |
| 215 | 1 | 3 | 215 | 31 | 39 | 2 | 5.3 | 2 | 0 | . | 4 |
| 216 | 1 | 3 | 216 | 23 | 42 | 2 | 5.3 | 2 | 0 | . | 4 |
| 217 | 1 | 3 | 217 | 18 | 36 | 2 | 6.2 | 2 | 0 | . | 4 |
| 218 | 1 | 3 | 218 | 11 | 41 | 2 | 7.3 | 1 | 1 | 25 | 4 |
| 219 | 1 | 3 | 219 | 3 | 37 | 3 | 4.0 | 3 | 0 | . | 4 |
| 220 | 1 | 3 | 220 | 2 | 41 | 2 | 5.7 | 2 | 0 | . | 4 |
| 221 | 1 | 3 | 221 | 7 | 44 | 2 | 6.4 | 2 | 0 | . | 4 |
| 222 | 1 | 3 | 222 | 13 | 48 | 2 | 5.9 | 2 | 0 | . | 4 |
| 223 | 1 | 3 | 223 | 24 | 48 | 2 | 5.4 | 2 | 0 | . | 4 |
| 224 | 1 | 3 | 224 | 33 | 46 | 2 | 5.1 | 2 | 0 | . | 4 |
| 225 | 1 | 3 | 225 | 41 | 45 | 2 | 6.8 | 2 | 0 | . | 4 |
| 226 | 1 | 3 | 226 | 38 | 53 | 2 | 6.3 | 2 | 0 | . | 4 |
| 227 | 1 | 3 | 227 | 33 | 52 | 2 | 6.9 | 2 | 0 | . | 4 |
| 228 | 1 | 3 | 228 | 28 | 58 | 2 | 5.4 | 2 | 0 | . | 4 |
| 229 | 1 | 3 | 229 | 25 | 61 | 2 | 6.6 | 2 | 0 | . | 4 |
| 230 | 1 | 3 | 230 | 24 | 53 | 2 | 7.3 | 1 | 0 | . | 4 |
| 231 | 1 | 3 | 231 | 15 | 62 | 3 | 4.0 | 2 | 0 | . | 4 |
| 232 | 1 | 3 | 232 | 8 | 60 | 3 | 6.5 | 2 | 0 | . | 4 |
| 233 | 1 | 3 | 233 | 7 | 52 | 2 | 5.2 | 2 | 0 | . | 4 |
| 234 | 1 | 3 | 234 | 1 | 52 | 2 | 6.3 | 1 | 0 | . | 4 |
| 235 | 1 | 3 | 235 | 5 | 52 | 2 | 7.1 | 1 | 0 | . | 4 |
| 236 | 1 | 4 | 236 | 7 | 5 | 2 | 7.7 | 1 | 0 | . | 5 |
| 237 | 1 | 4 | 237 | 15 | 8 | 2 | 6.5 | 2 | 1 | 23 | 5 |
| 238 | 1 | 4 | 238 | 5 | 12 | 2 | 7.8 | 2 | 0 | . | 5 |
| 239 | 1 | 4 | 239 | 7 | 20 | 2 | 6.2 | 2 | 0 | . | 5 |
| 240 | 1 | 4 | 240 | 17 | 22 | 2 | 7.3 | 3 | 0 | . | 5 |
| 241 | 1 | 4 | 241 | 10 | 25 | 2 | 7.5 | 1 | 0 | . | 5 |
| 242 | 1 | 4 | 242 | 3 | 29 | 2 | 7.8 | 1 | 1 | 27 | 5 |
| 243 | 1 | 4 | 243 | 2 | 35 | 2 | 6.5 | 4 | 1 | 27 | 5 |
| 244 | 1 | 4 | 244 | 6 | 41 | 2 | 6.9 | 2 | 0 | . | 5 |
| 245 | 1 | 4 | 245 | 12 | 37 | 2 | 6.9 | 2 | 0 | . | 5 |
| 246 | 1 | 4 | 246 | 19 | 31 | 2 | 6.8 | 2 | 1 | 32 | 5 |
| 247 | 1 | 4 | 247 | 22 | 45 | 2 | 6.4 | 3 | 1 | 28 | 5 |
| 248 | 1 | 4 | 248 | 18 | 41 | 2 | 7.6 | 2 | 1 | 30 | 5 |
| 249 | 1 | 4 | 249 | 12 | 43 | 2 | 6.9 | 2 | 1 | 28 | 5 |
| 250 | 1 | 4 | 250 | 10 | 49 | 2 | 6.0 | 2 | 1 | 24 | 5 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 251 | 1 | 4 | 251 | 7 | 57 | 2 | 7.3 | 2 | 0 | . | 5 |
| 252 | 1 | 4 | 252 | 14 | 54 | 2 | 5.9 | 4 | 1 | 23 | 5 |
| 253 | 1 | 4 | 253 | 24 | 51 | 2 | 7.8 | 1 | 0 | . | 5 |
| 254 | 1 | 4 | 254 | 29 | 62 | 2 | 7.1 | 4 | 0 | . | 5 |
| 255 | 1 | 4 | 255 | 23 | 59 | 2 | 6.4 | 3 | 1 | 25 | 5 |
| 256 | 1 | 4 | 256 | 18 | 63 | 2 | 6.4 | 4 | 1 | 30 | 5 |
| 257 | 1 | 4 | 257 | 9 | 62 | 2 | 6.6 | 3 | 0 | . | 5 |
| 258 | 1 | 4 | 258 | 7 | 68 | 3 | 4.7 | 4 | 0 | . | 5 |
| 259 | 1 | 4 | 259 | 11 | 69 | 2 | 5.0 | 3 | 0 | . | 5 |
| 260 | 1 | 4 | 260 | 21 | 70 | 2 | 5.5 | 2 | 1 | 26 | 5 |
| 261 | 1 | 4 | 261 | 28 | 69 | 2 | 7.7 | 1 | 1 | 31 | 5 |
| 262 | 1 | 4 | 262 | 25 | 77 | 2 | 5.8 | 1 | 0 | . | 5 |
| 263 | 1 | 4 | 263 | 18 | 75 | 2 | 5.8 | 3 | 0 | . | 5 |
| 264 | 1 | 4 | 264 | 9 | 75 | 2 | 8.0 | 1 | 1 | 27 | 5 |
| 265 | 1 | 4 | 265 | 4 | 84 | 2 | 5.8 | 1 | 0 | . | 5 |
| 266 | 1 | 4 | 266 | 13 | 83 | 2 | 6.7 | 1 | 1 | 25 | 5 |
| 267 | 1 | 4 | 267 | 16 | 87 | 2 | 7.4 | 1 | 0 | . | 5 |
| 268 | 1 | 4 | 268 | 24 | 94 | 2 | 5.2 | 2 | 1 | 23 | 5 |
| 269 | 1 | 4 | 269 | 9 | 90 | 2 | 6.2 | 3 | 0 | . | 5 |
| 270 | 1 | 4 | 270 | 7 | 96 | 2 | 5.9 | 2 | 1 | 23 | 5 |
| 271 | 1 | 4 | 271 | 4 | 91 | 2 | 6.1 | 2 | 0 | . | 5 |
| 272 | 1 | 4 | 272 | 1 | 99 | 3 | 3.7 | 3 | 1 | 20 | 5 |
| 273 | 1 | 4 | 273 | 19 | 1 | 2 | 8.2 | 3 | 0 | . | 5 |
| 274 | 1 | 4 | 274 | 25 | 1 | 2 | 6.7 | 3 | 0 | . | 5 |
| 275 | 1 | 4 | 275 | 32 | 11 | 2 | 7.6 | 1 | 1 | 28 | 5 |
| 276 | 1 | 4 | 276 | 23 | 16 | 2 | 7.8 | 2 | 1 | 24 | 5 |
| 277 | 1 | 4 | 277 | 34 | 19 | 2 | 6.8 | 2 | 0 | . | 5 |
| 278 | 1 | 4 | 278 | 31 | 25 | 2 | 7.4 | 1 | 1 | 27 | 5 |
| 279 | 1 | 4 | 279 | 26 | 29 | 2 | 9.2 | 1 | 1 | 25 | 5 |
| 280 | 1 | 4 | 280 | 27 | 39 | 2 | 6.3 | 2 | 1 | 27 | 5 |
| 281 | 1 | 4 | 281 | 38 | 39 | 2 | 8.7 | 1 | 0 | . | 5 |
| 282 | 1 | 4 | 282 | 38 | 46 | 2 | 7.3 | 3 | 0 | . | 5 |
| 283 | 1 | 4 | 283 | 31 | 49 | 3 | 4.4 | 2 | 0 | . | 5 |
| 284 | 1 | 4 | 284 | 38 | 55 | 2 | 8.7 | 2 | 0 | . | 5 |
| 285 | 1 | 4 | 285 | 43 | 50 | 2 | 5.5 | 4 | 1 | 25 | 5 |
| 286 | 1 | 4 | 286 | 35 | 65 | 2 | 7.3 | 2 | 1 | 26 | 5 |
| 287 | 1 | 4 | 287 | 40 | 69 | 2 | 6.0 | 3 | 0 | . | 5 |
| 288 | 1 | 4 | 288 | 40 | 84 | 2 | 6.1 | 3 | 0 | . | 5 |
| 289 | 1 | 4 | 289 | 34 | 82 | 2 | 6.5 | 2 | 0 | . | 5 |
| 290 | 1 | 4 | 290 | 28 | 84 | 2 | 7.8 | 1 | 1 | 28 | 5 |
| 291 | 1 | 4 | 291 | 30 | 88 | 2 | 7.3 | 2 | 0 | . | 5 |
| 292 | 1 | 4 | 292 | 37 | 93 | 2 | 7.7 | 4 | 0 | . | 5 |
| 293 | 1 | 4 | 293 | 33 | 98 | 2 | 6.8 | 2 | 0 | . | 5 |
| 294 | 1 | 4 | 294 | 28 | 97 | 2 | 7.4 | 2 | 0 | . | 5 |
| 295 | 1 | 4 | 295 | 46 | 3 | 2 | 7.4 | 1 | 1 | 29 | 5 |
| 296 | 1 | 4 | 296 | 54 | 1 | 3 | 4.0 | 2 | 0 | . | 5 |
| 297 | 1 | 4 | 297 | 61 | 11 | 2 | 8.7 | 1 | 1 | 29 | 5 |
| 298 | 1 | 4 | 298 | 54 | 14 | 2 | 8.3 | 2 | 0 | . | 5 |
| 299 | 1 | 4 | 299 | 43 | 10 | 2 | 5.6 | 3 | 0 | . | 5 |
| 300 | 1 | 4 | 300 | . | . | 3 | 5.6 | 5 | 2 | . | 5 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 301 | 1 | 4 | 301 | 46 | 19 | 2 | 8.5 | 1 | 0 | . | 5 |
| 302 | 1 | 4 | 302 | 65 | 22 | 2 | 6.6 | 2 | 1 | 24 | 5 |
| 303 | 1 | 4 | 303 | 61 | 34 | 2 | 6.3 | 2 | 0 | . | 5 |
| 304 | 1 | 4 | 304 | 54 | 29 | 2 | 5.7 | 3 | 0 | . | 5 |
| 305 | 1 | 4 | 305 | 49 | 24 | 2 | 6.9 | 2 | 0 | . | 5 |
| 306 | 1 | 4 | 306 | 43 | 32 | 2 | 7.2 | 4 | 0 | . | 5 |
| 307 | 1 | 4 | 307 | 48 | 39 | 2 | 6.4 | 2 | 1 | 25 | 5 |
| 308 | 1 | 4 | 308 | 47 | 44 | 2 | 7.2 | 2 | 1 | 31 | 5 |
| 309 | 1 | 4 | 309 | 56 | 44 | 3 | 5.6 | 4 | 0 | . | 5 |
| 310 | 1 | 4 | 310 | 58 | 41 | 2 | 7.2 | 2 | 0 | . | 5 |
| 311 | 1 | 4 | 311 | 64 | 44 | 2 | 7.8 | 2 | 0 | . | 5 |
| 312 | 1 | 4 | 312 | 61 | 49 | 2 | 7.0 | 3 | 1 | 28 | 5 |
| 313 | 1 | 4 | 313 | 53 | 53 | 2 | 6.0 | 2 | 0 | . | 5 |
| 314 | 1 | 4 | 314 | 66 | 55 | 2 | 7.9 | 1 | 0 | . | 5 |
| 315 | 1 | 4 | 315 | 61 | 57 | 2 | 8.2 | 2 | 0 | . | 5 |
| 316 | 1 | 4 | 316 | 55 | 59 | 2 | 8.1 | 3 | 0 | . | 5 |
| 317 | 1 | 4 | 317 | 47 | 64 | 2 | 7.7 | 1 | 1 | 22 | 5 |
| 318 | 1 | 4 | 318 | 45 | 74 | 3 | 6.7 | 2 | 0 | . | 5 |
| 319 | 1 | 4 | 319 | 60 | 70 | 2 | 7.4 | 2 | 1 | 24 | 5 |
| 320 | 1 | 4 | 320 | 64 | 76 | 2 | 5.2 | 3 | 0 | . | 5 |
| 321 | 1 | 4 | 321 | 55 | 76 | 2 | 7.2 | 2 | 0 | . | 5 |
| 322 | 1 | 4 | 322 | 58 | 81 | 2 | 8.1 | 1 | 1 | 31 | 5 |
| 323 | 1 | 4 | 323 | 43 | 89 | 2 | 7.2 | 3 | 0 | . | 5 |
| 324 | 1 | 4 | 324 | 52 | 90 | 2 | 5.9 | 2 | 1 | 24 | 5 |
| 325 | 1 | 4 | 325 | 62 | 87 | 2 | 7.1 | 3 | 0 | . | 5 |
| 326 | 1 | 4 | 326 | 66 | 87 | 2 | 8.5 | 3 | 0 | . | 5 |
| 327 | 2 | 1 | 327 | 8 | 64 | 2 | 6.1 | 2 | 0 | . | 3 |
| 328 | 2 | 1 | 328 | 14 | 64 | 2 | 8.4 | 1 | 1 | 27 | 3 |
| 329 | 2 | 1 | 329 | . | . | 3 | 5.3 | 4 | 2 | . | 3 |
| 330 | 2 | 1 | 330 | 18 | 60 | 2 | 5.2 | 3 | 1 | 21 | 3 |
| 331 | 2 | 1 | 331 | . | . | 2 | 5.3 | 4 | 2 | . | 3 |
| 332 | 2 | 1 | 332 | 6 | 52 | 2 | 5.0 | 3 | 1 | 18 | 3 |
| 333 | 2 | 1 | 333 | 6 | 48 | 2 | 5.1 | 3 | 1 | 19 | 3 |
| 334 | 2 | 1 | 334 | 13 | 50 | 2 | 6.4 | 1 | 1 | 17 | 3 |
| 335 | 2 | 1 | 335 | 18 | 42 | 2 | 5.5 | 1 | 0 | . | 3 |
| 336 | 2 | 1 | 336 | . | . | 3 | 3.3 | 4 | 2 | . | 3 |
| 337 | 2 | 1 | 337 | . | . | 3 | 2.0 | 5 | 2 | . | 3 |
| 338 | 2 | 1 | 338 | . | . | 3 | 3.1 | 4 | 2 | . | 3 |
| 339 | 2 | 1 | 339 | 9 | 43 | 2 | 5.1 | 2 | 1 | 20 | 3 |
| 340 | 2 | 1 | 340 | . | . | 4 | 2.7 | 5 | 2 | . | 3 |
| 341 | 2 | 1 | 341 | 5 | 42 | 2 | 5.3 | 2 | 0 | . | 3 |
| 342 | 2 | 1 | 342 | . | . | 2 | 4.2 | 4 | 2 | . | 3 |
| 343 | 2 | 1 | 343 | 0 | 40 | 2 | 6.2 | 1 | 0 | . | 3 |
| 344 | 2 | 1 | 344 | 1 | 36 | 3 | 4.6 | 3 | 0 | . | 3 |
| 345 | 2 | 1 | 345 | . | . | 3 | 2.1 | 5 | 2 | . | 3 |
| 346 | 2 | 1 | 346 | . | . | 3 | 3.5 | 4 | 2 | . | 3 |
| 347 | 2 | 1 | 347 | 5 | 34 | 2 | 4.9 | 3 | 0 | . | 3 |
| 348 | 2 | 1 | 348 | . | . | 3 | 4.1 | 5 | 2 | . | 3 |
| 349 | 2 | 1 | 349 | 8 | 36 | 2 | 6.7 | 1 | 0 | . | 3 |
| 350 | 2 | 1 | 350 | 12 | 35 | 3 | 3.9 | 3 | 0 | . | 3 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 351 | 2 | 1 | 351 | 18 | 37 | 2 | 4.7 | 3 | 0 | . | 3 |
| 352 | 2 | 1 | 352 | . | . | 2 | 5.8 | 4 | 2 | . | 3 |
| 353 | 2 | 1 | 353 | 8 | 31 | 2 | 5.5 | 1 | 1 | 20 | 3 |
| 354 | 2 | 1 | 354 | . | . | 3 | 3.1 | 4 | 2 | . | 3 |
| 355 | 2 | 1 | 355 | . | . | 4 | 3.0 | 5 | 2 | . | 3 |
| 356 | 2 | 1 | 356 | 4 | 26 | 3 | 3.4 | 3 | 0 | . | 3 |
| 357 | 2 | 1 | 357 | . | . | 3 | 2.7 | 4 | 2 | . | 3 |
| 358 | 2 | 1 | 358 | . | . | 3 | 3.2 | 5 | 2 | . | 3 |
| 359 | 2 | 1 | 359 | 4 | 20 | 2 | 4.7 | 1 | 0 | . | 3 |
| 360 | 2 | 1 | 360 | . | . | 3 | 2.1 | 5 | 2 | . | 3 |
| 361 | 2 | 1 | 361 | 9 | 18 | 2 | 5.7 | 3 | 1 | 18 | 3 |
| 362 | 2 | 1 | 362 | . | . | 4 | 2.2 | 5 | 2 | . | 3 |
| 363 | 2 | 1 | 363 | 13 | 19 | 2 | 5.4 | 1 | 0 | . | 3 |
| 364 | 2 | 1 | 364 | . | . | 3 | 3.7 | 4 | 2 | . | 3 |
| 365 | 2 | 1 | 365 | 11 | 11 | 3 | 3.8 | 2 | 0 | . | 3 |
| 366 | 2 | 1 | 366 | 3 | 6 | 2 | 8.1 | 1 | 0 | . | 3 |
| 367 | 2 | 1 | 367 | 10 | 4 | 3 | 4.9 | 3 | 0 | . | 3 |
| 368 | 2 | 1 | 368 | . | . | 2 | 6.9 | 4 | 2 | . | 3 |
| 369 | 2 | 1 | 369 | 22 | 1 | 3 | 3.6 | 3 | 0 | . | 3 |
| 370 | 2 | 1 | 370 | 26 | 5 | 3 | 3.8 | 3 | 0 | . | 3 |
| 371 | 2 | 1 | 371 | 30 | 5 | 2 | 6.0 | 2 | 1 | 23 | 3 |
| 372 | 2 | 1 | 372 | 37 | 2 | 2 | 5.5 | 3 | 1 | 18 | 3 |
| 373 | 2 | 1 | 373 | 24 | 55 | 2 | 6.5 | 1 | 1 | 20 | 3 |
| 374 | 2 | 1 | 374 | 27 | 52 | 2 | 4.9 | 3 | 0 | . | 3 |
| 375 | 2 | 1 | 375 | . | . | 3 | 4.2 | 5 | 2 | . | 3 |
| 376 | 2 | 1 | 376 | 32 | 57 | 2 | 5.5 | 2 | 0 | . | 3 |
| 377 | 2 | 1 | 377 | 36 | 61 | 3 | 4.2 | 3 | 0 | . | 3 |
| 378 | 2 | 1 | 378 | 39 | 61 | 2 | 5.7 | 1 | 1 | 22 | 3 |
| 379 | 2 | 1 | 379 | . | . | 2 | 4.8 | 4 | 2 | . | 3 |
| 380 | 2 | 1 | 380 | . | . | 3 | 3.2 | 5 | 2 | . | 3 |
| 381 | 2 | 1 | 381 | 41 | 57 | 2 | 4.4 | 3 | 1 | 19 | 3 |
| 382 | 2 | 1 | 382 | . | . | 4 | 5.3 | 5 | 2 | . | 3 |
| 383 | 2 | 1 | 383 | 33 | 51 | 2 | 6.2 | 3 | 0 | . | 3 |
| 384 | 2 | 1 | 384 | 27 | 45 | 2 | 6.2 | 1 | 0 | . | 3 |
| 385 | 2 | 1 | 385 | . | . | 4 | 2.5 | 5 | 2 | . | 3 |
| 386 | 2 | 1 | 386 | 21 | 37 | 2 | 3.2 | 3 | 1 | 13 | 3 |
| 387 | 2 | 1 | 387 | 29 | 36 | 2 | 4.9 | 2 | 1 | 16 | 3 |
| 388 | 2 | 1 | 388 | 39 | 45 | 2 | 6.7 | 1 | 1 | 21 | 3 |
| 389 | 2 | 1 | 389 | . | . | 2 | 5.9 | 4 | 2 | . | 3 |
| 390 | 2 | 1 | 390 | . | . | 4 | 1.8 | 4 | 2 | . | 3 |
| 391 | 2 | 1 | 391 | 39 | 36 | 2 | 5.7 | 1 | 1 | 22 | 3 |
| 392 | 2 | 1 | 392 | 20 | 30 | 2 | 4.6 | 2 | 1 | 16 | 3 |
| 393 | 2 | 1 | 393 | . | . | 4 | 3.3 | 5 | 2 | . | 3 |
| 394 | 2 | 1 | 394 | 25 | 26 | 2 | 3.9 | 3 | 0 | . | 3 |
| 395 | 2 | 1 | 395 | . | . | 4 | 2.7 | 5 | 2 | . | 3 |
| 396 | 2 | 1 | 396 | 26 | 26 | 2 | 4.4 | 2 | 1 | 18 | 3 |
| 397 | 2 | 1 | 397 | . | . | 4 | 2.9 | 4 | 2 | . | 3 |
| 398 | 2 | 1 | 398 | 33 | 18 | 2 | 4.1 | 3 | 0 | . | 3 |
| 399 | 2 | 1 | 399 | 28 | 20 | 3 | 3.5 | 3 | 1 | 14 | 3 |
| 400 | 2 | 1 | 400 | 19 | 18 | 2 | 5.4 | 2 | 0 | . | 3 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 401 | 2 | 1 | 401 | 22 | 11 | 2 | 6.2 | 1 | 1 | 20 | 3 |
| 402 | 2 | 1 | 402 | . | . | 3 | 2.7 | 4 | 2 | . | 3 |
| 403 | 2 | 1 | 403 | 31 | 13 | 2 | 6.3 | 1 | 0 | . | 3 |
| 404 | 2 | 1 | 404 | . | . | 3 | 3.6 | 4 | 2 | . | 3 |
| 405 | 2 | 1 | 405 | . | . | 4 | 2.5 | 5 | 2 | . | 3 |
| 406 | 2 | 1 | 406 | 47 | 55 | 2 | 7.8 | 3 | 0 | . | 3 |
| 407 | 2 | 1 | 407 | 49 | 51 | 2 | 4.8 | 3 | 0 | . | 3 |
| 408 | 2 | 1 | 408 | 52 | 54 | 2 | 6.1 | 2 | 0 | . | 3 |
| 409 | 2 | 1 | 409 | . | . | 3 | 4.1 | 4 | 2 | . | 3 |
| 410 | 2 | 1 | 410 | . | . | 4 | 3.1 | 5 | 2 | . | 3 |
| 411 | 2 | 1 | 411 | 56 | 59 | 2 | 8.6 | 1 | 1 | 26 | 3 |
| 412 | 2 | 1 | 412 | . | . | 2 | 6.8 | 4 | 2 | . | 3 |
| 413 | 2 | 1 | 413 | . | . | 2 | 5.1 | 4 | 2 | . | 3 |
| 414 | 2 | 1 | 414 | 64 | 41 | 2 | 6.6 | 3 | 0 | . | 3 |
| 415 | 2 | 1 | 415 | 51 | 40 | 2 | 6.5 | 1 | 1 | 21 | 3 |
| 416 | 2 | 1 | 416 | 47 | 39 | 2 | 7.6 | 1 | 0 | . | 3 |
| 417 | 2 | 1 | 417 | . | . | 3 | 3.1 | 4 | 2 | . | 3 |
| 418 | 2 | 1 | 418 | . | . | 4 | 1.8 | 5 | 2 | . | 3 |
| 419 | 2 | 1 | 419 | . | . | 3 | 4.7 | 4 | 2 | . | 3 |
| 420 | 2 | 1 | 420 | 52 | 28 | 2 | 7.1 | 1 | 1 | 23 | 3 |
| 421 | 2 | 1 | 421 | . | . | 3 | 3.8 | 5 | 2 | . | 3 |
| 422 | 2 | 1 | 422 | 63 | 29 | 2 | 6.0 | 3 | 0 | . | 3 |
| 423 | 2 | 1 | 423 | . | . | 2 | 5.0 | 4 | 2 | . | 3 |
| 424 | 2 | 1 | 424 | . | . | 3 | 3.3 | 4 | 2 | . | 3 |
| 425 | 2 | 1 | 425 | 40 | 24 | 2 | 7.4 | 1 | 1 | 23 | 3 |
| 426 | 2 | 1 | 426 | . | . | 3 | 3.5 | 4 | 2 | . | 3 |
| 427 | 2 | 1 | 427 | 42 | 11 | 2 | 6.7 | 1 | 0 | . | 3 |
| 428 | 2 | 1 | 428 | 49 | 11 | 3 | 3.8 | 3 | 0 | . | 3 |
| 429 | 2 | 1 | 429 | 55 | 16 | 3 | 4.8 | 2 | 0 | . | 3 |
| 430 | 2 | 1 | 430 | 63 | 12 | 2 | 6.6 | 1 | 1 | 24 | 3 |
| 431 | 2 | 1 | 431 | 65 | 8 | 3 | 3.8 | 3 | 1 | 16 | 3 |
| 432 | 2 | 1 | 432 | . | . | 3 | 2.2 | 5 | 2 | . | 3 |
| 433 | 2 | 1 | 433 | 50 | 7 | 2 | 6.3 | 3 | 1 | 21 | 3 |
| 434 | 2 | 1 | 434 | 44 | 5 | 2 | 7.0 | 2 | 1 | 25 | 3 |
| 435 | 2 | 1 | 435 | 54 | 3 | 2 | 8.2 | 1 | 0 | . | 3 |
| 436 | 2 | 1 | 436 | 68 | 58 | 2 | 6.7 | 1 | 0 | . | 3 |
| 437 | 2 | 1 | 437 | . | . | 3 | 4.9 | 4 | 2 | . | 3 |
| 438 | 2 | 1 | 438 | . | . | 3 | 2.8 | 5 | 2 | . | 3 |
| 439 | 2 | 1 | 439 | 87 | 63 | 2 | 6.8 | 1 | 0 | . | 3 |
| 440 | 2 | 1 | 440 | 86 | 56 | 3 | 6.5 | 3 | 1 | 16 | 3 |
| 441 | 2 | 1 | 441 | . | . | 3 | 3.0 | 4 | 2 | . | 5 |
| 442 | 2 | 1 | 442 | 85 | 49 | 2 | 4.3 | 3 | 0 | . | 3 |
| 443 | 2 | 1 | 443 | 72 | 37 | 2 | 6.6 | 1 | 0 | . | 3 |
| 444 | 2 | 1 | 444 | 75 | 37 | 2 | 5.6 | 3 | 1 | 19 | 3 |
| 445 | 2 | 1 | 445 | 80 | 41 | 2 | 6.1 | 1 | 0 | . | 3 |
| 446 | 2 | 1 | 446 | . | . | 4 | 2.5 | 5 | 2 | . | 3 |
| 447 | 2 | 1 | 447 | 91 | 43 | 2 | 7.7 | 1 | 0 | . | 3 |
| 448 | 2 | 1 | 448 | . | . | 2 | 7.3 | 4 | 2 | . | 3 |
| 449 | 2 | 1 | 449 | 90 | 35 | 3 | 4.9 | 3 | 0 | . | 3 |
| 450 | 2 | 1 | 450 | 84 | 38 | 2 | 5.1 | 3 | 0 | . | 3 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 451 | 2 | 1 | 451 | . | . | 4 | 1.9 | 5 | 2 | . | 3 |
| 452 | 2 | 1 | 452 | . | . | 3 | 3.0 | 5 | 2 | . | 3 |
| 453 | 2 | 1 | 453 | 68 | 27 | 3 | 4.3 | 3 | 0 | . | 3 |
| 454 | 2 | 1 | 454 | 75 | 31 | 2 | 6.4 | 2 | 1 | 21 | 3 |
| 455 | 2 | 1 | 455 | 83 | 33 | 2 | 5.8 | 3 | 0 | . | 3 |
| 456 | 2 | 1 | 456 | 95 | 29 | 2 | 7.8 | 1 | 0 | . | 3 |
| 457 | 2 | 1 | 457 | 88 | 28 | 2 | 7.0 | 2 | 0 | . | 3 |
| 458 | 2 | 1 | 458 | 80 | 26 | 3 | 4.3 | 3 | 0 | . | 3 |
| 459 | 2 | 1 | 459 | . | . | 4 | 3.2 | 5 | 2 | . | 3 |
| 460 | 2 | 1 | 460 | . | . | 3 | 3.2 | 5 | 2 | . | 3 |
| 461 | 2 | 1 | 461 | 74 | 24 | 2 | 6.7 | 1 | 1 | 24 | 3 |
| 462 | 2 | 1 | 462 | 67 | 22 | 2 | 7.1 | 2 | 0 | . | 3 |
| 463 | 2 | 1 | 463 | . | . | 3 | 3.7 | 4 | 2 | . | 3 |
| 464 | 2 | 1 | 464 | 74 | 13 | 3 | 3.5 | 3 | 0 | . | 3 |
| 465 | 2 | 1 | 465 | 81 | 17 | 2 | 8.3 | 1 | 1 | 26 | 3 |
| 466 | 2 | 1 | 466 | . | . | 2 | 5.2 | 4 | 2 | . | 3 |
| 467 | 2 | 1 | 467 | 95 | 10 | 3 | 3.8 | 2 | 1 | 12 | 3 |
| 468 | 2 | 1 | 468 | 80 | 9 | 2 | 5.2 | 3 | 0 | . | 3 |
| 469 | 2 | 1 | 469 | . | . | 2 | 5.9 | 4 | 2 | . | 3 |
| 470 | 2 | 1 | 470 | 76 | 2 | 2 | 5.9 | 1 | 1 | 23 | 3 |
| 471 | 2 | 1 | 471 | . | . | 3 | 2.6 | 5 | 2 | . | 3 |
| 472 | 2 | 1 | 472 | . | . | 3 | 2.3 | 5 | 2 | . | 3 |
| 473 | 2 | 1 | 473 | . | . | 2 | 6.3 | 4 | 2 | . | 3 |
| 474 | 2 | 1 | 474 | . | . | 2 | 6.1 | 4 | 2 | . | 3 |
| 475 | 2 | 2 | 475 | 6 | 63 | 2 | 4.7 | 2 | 0 | . | 5 |
| 476 | 2 | 2 | 476 | 8 | 61 | 2 | 5.3 | 3 | 0 | . | 5 |
| 477 | 2 | 2 | 477 | 9 | 64 | 2 | 4.4 | 3 | 0 | . | 5 |
| 478 | 2 | 2 | 478 | 13 | 62 | 2 | 5.9 | 2 | 1 | 21 | 5 |
| 479 | 2 | 2 | 479 | 16 | 60 | 2 | 4.1 | 4 | 1 | 18 | 5 |
| 480 | 2 | 2 | 480 | 21 | 57 | 2 | 7.8 | 3 | 0 | . | 5 |
| 481 | 2 | 2 | 481 | 15 | 54 | 2 | 5.5 | 2 | 0 | . | 5 |
| 482 | 2 | 2 | 482 | 3 | 56 | 3 | 3.7 | 3 | 0 | . | 5 |
| 483 | 2 | 2 | 483 | 3 | 48 | 2 | 6.6 | 1 | 0 | . | 5 |
| 484 | 2 | 2 | 484 | 1 | 39 | 2 | 6.0 | 2 | 0 | . | 5 |
| 485 | 2 | 2 | 485 | . | . | 3 | 1.8 | 5 | 2 | . | 5 |
| 486 | 2 | 2 | 486 | 11 | 35 | 2 | 5.3 | 4 | 0 | . | 5 |
| 487 | 2 | 2 | 487 | 14 | 36 | 2 | 6.6 | 1 | 1 | 24 | 5 |
| 488 | 2 | 2 | 488 | 10 | 27 | 3 | 3.9 | 2 | 1 | 16 | 5 |
| 489 | 2 | 2 | 489 | 6 | 22 | 2 | 6.7 | 1 | 0 | . | 5 |
| 490 | 2 | 2 | 490 | 3 | 33 | 2 | 6.5 | 1 | 0 | . | 5 |
| 491 | 2 | 2 | 491 | 1 | 23 | 2 | 6.0 | 1 | 0 | . | 5 |
| 492 | 2 | 2 | 492 | 10 | 19 | 3 | 2.9 | 4 | 0 | . | 5 |
| 493 | 2 | 2 | 493 | 4 | 14 | 2 | 6.4 | 1 | 0 | . | 5 |
| 494 | 2 | 2 | 494 | 16 | 15 | 2 | 6.4 | 1 | 0 | . | 5 |
| 495 | 2 | 2 | 495 | 2 | 8 | 2 | 6.0 | 2 | 1 | 26 | 5 |
| 496 | 2 | 2 | 496 | 7 | 8 | 2 | 6.4 | 1 | 1 | . | 5 |
| 497 | 2 | 2 | 497 | 13 | 3 | 3 | 4.4 | 3 | 0 | . | 5 |
| 498 | 2 | 2 | 498 | 14 | 8 | 2 | 5.5 | 3 | 0 | . | 5 |
| 499 | 2 | 2 | 499 | . | . | 4 | 2.6 | 5 | 2 | . | 5 |
| 500 | 2 | 2 | 500 | 23 | 61 | 2 | 4.2 | 2 | 1 | 19 | 5 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 501 | 2 | 2 | 501 | 25 | 58 | 2 | 5.3 | 3 | 0 | . | 5 |
| 502 | 2 | 2 | 502 | . | . | 4 | 3.2 | 5 | 2 | . | 5 |
| 503 | 2 | 2 | 503 | 28 | 55 | 2 | 5.3 | 4 | 0 | . | 5 |
| 504 | 2 | 2 | 504 | 30 | 54 | 2 | 6.0 | 1 | 1 | 27 | 5 |
| 505 | 2 | 2 | 505 | . | . | 4 | 3.3 | 5 | 2 | . | 5 |
| 506 | 2 | 2 | 506 | 31 | 55 | 2 | 5.5 | 3 | 0 | . | 5 |
| 507 | 2 | 2 | 507 | 35 | 55 | 2 | 4.3 | 3 | 1 | 18 | 5 |
| 508 | 2 | 2 | 508 | . | . | 4 | 2.6 | 5 | 2 | . | 5 |
| 509 | 2 | 2 | 509 | 37 | 62 | 2 | 5.5 | 2 | 0 | . | 5 |
| 510 | 2 | 2 | 510 | 39 | 61 | 2 | 5.4 | 4 | 1 | 23 | 5 |
| 511 | 2 | 2 | 511 | 44 | 62 | 2 | 6.3 | 1 | 0 | . | 5 |
| 512 | 2 | 2 | 512 | 38 | 50 | 2 | 6.4 | 4 | 0 | . | 5 |
| 513 | 2 | 2 | 513 | 36 | 42 | 2 | 5.8 | 2 | 1 | 23 | 5 |
| 514 | 2 | 2 | 514 | 35 | 42 | 3 | 5.0 | 4 | 1 | 17 | 5 |
| 515 | 2 | 2 | 515 | 30 | 45 | 2 | 4.9 | 2 | 0 | . | 5 |
| 516 | 2 | 2 | 516 | 26 | 40 | 3 | 3.1 | 4 | 0 | . | 5 |
| 517 | 2 | 2 | 517 | . | . | 4 | 3.7 | 5 | 2 | . | 5 |
| 518 | 2 | 2 | 518 | 23 | 35 | 2 | 7.5 | 2 | 1 | 20 | 5 |
| 519 | 2 | 2 | 519 | 25 | 32 | 2 | 5.0 | 3 | 1 | 21 | 5 |
| 520 | 2 | 2 | 520 | 20 | 32 | 2 | 7.5 | 1 | 1 | 28 | 5 |
| 521 | 2 | 2 | 521 | 21 | 25 | 2 | 5.7 | 4 | 0 | . | 5 |
| 522 | 2 | 2 | 522 | 27 | 27 | 2 | 5.9 | 3 | 0 | . | 5 |
| 523 | 2 | 2 | 523 | 27 | 26 | 3 | 5.0 | 4 | 1 | 18 | 5 |
| 524 | 2 | 2 | 524 | 35 | 23 | 2 | 6.3 | 3 | 0 | . | 5 |
| 525 | 2 | 2 | 525 | 20 | 21 | 2 | 6.6 | 2 | 0 | . | 5 |
| 526 | 2 | 2 | 526 | 23 | 18 | 2 | 7.4 | 2 | 0 | . | 5 |
| 527 | 2 | 2 | 527 | . | . | 4 | 5.3 | 5 | 2 | . | 5 |
| 528 | 2 | 2 | 528 | 21 | 11 | 2 | 6.5 | 1 | 0 | . | 5 |
| 529 | 2 | 2 | 529 | 27 | 7 | 3 | 2.9 | 4 | 1 | 12 | 5 |
| 530 | 2 | 2 | 530 | 25 | 0 | 2 | 6.4 | 1 | 0 | . | 5 |
| 531 | 2 | 2 | 531 | 30 | 1 | 3 | 3.1 | 4 | 1 | 16 | 5 |
| 532 | 2 | 2 | 532 | 32 | 4 | 2 | 6.8 | 1 | 0 | . | 5 |
| 533 | 2 | 2 | 533 | 36 | 8 | 2 | 5.6 | 3 | 1 | 22 | 5 |
| 534 | 2 | 2 | 534 | 50 | 60 | 3 | 4.3 | 3 | 1 | 18 | 5 |
| 535 | 2 | 2 | 535 | 55 | 61 | 3 | 4.8 | 4 | 1 | 18 | 5 |
| 536 | 2 | 2 | 536 | 64 | 61 | 2 | 6.5 | 1 | 0 | . | 5 |
| 537 | 2 | 2 | 537 | 65 | 65 | 3 | 4.4 | 3 | 1 | 15 | 5 |
| 538 | 2 | 2 | 538 | 64 | 58 | 2 | 5.9 | 1 | 0 | . | 5 |
| 539 | 2 | 2 | 539 | 61 | 47 | 3 | 4.9 | 3 | 0 | . | 5 |
| 540 | 2 | 2 | 540 | 54 | 46 | 3 | 4.9 | 4 | 1 | 18 | 5 |
| 541 | 2 | 2 | 541 | 53 | 45 | 2 | 6.3 | 2 | 0 | . | 5 |
| 542 | 2 | 2 | 542 | 50 | 50 | 3 | 4.2 | 3 | 1 | 18 | 5 |
| 543 | 2 | 2 | 543 | 46 | 48 | 2 | 5.4 | 2 | 0 | . | 5 |
| 544 | 2 | 2 | 544 | 46 | 42 | 2 | 6.8 | 2 | 1 | 25 | 5 |
| 545 | 2 | 2 | 545 | 49 | 38 | 2 | 5.5 | 3 | 1 | 19 | 5 |
| 546 | 2 | 2 | 546 | 57 | 40 | 2 | 5.7 | 2 | 1 | 24 | 5 |
| 547 | 2 | 2 | 547 | 62 | 35 | 2 | 5.8 | 3 | 0 | . | 5 |
| 548 | 2 | 2 | 548 | . | . | 4 | 3.2 | 5 | 2 | . | 5 |
| 549 | 2 | 2 | 549 | 58 | 31 | 2 | 5.8 | 3 | 0 | . | 5 |
| 550 | 2 | 2 | 550 | . | . | 3 | 2.5 | 5 | 2 | . | 5 |
| 551 | 2 | 2 | 551 | . | . | 4 | 3.8 | 5 | 2 | . | 5 |
| 552 | 2 | 2 | 552 | 53 | 34 | 2 | 5.6 | 2 | 0 | . | 5 |
| 553 | 2 | 2 | 553 | . | . | 4 | 4.0 | 5 | 2 | . | 5 |
| 554 | 2 | 2 | 554 | . | . | 4 | 2.5 | 5 | 2 | . | 5 |
| 555 | 2 | 2 | 555 | 44 | 34 | 2 | 6.0 | 2 | 0 | . | 5 |
| 556 | 2 | 2 | 556 | . | . | 4 | 4.4 | 5 | 2 | . | 5 |
| 557 | 2 | 2 | 557 | 42 | 31 | 3 | 3.2 | 4 | 0 | . | 5 |
| 558 | 2 | 2 | 558 | 43 | 31 | 3 | 3.5 | 4 | 0 | . | 5 |
| 559 | 2 | 2 | 559 | 42 | 27 | 2 | 8.2 | 1 | 1 | 29 | 5 |
| 560 | 2 | 2 | 560 | . | . | 4 | 3.7 | 5 | 2 | . | 5 |
| 561 | 2 | 2 | 561 | 46 | 28 | 3 | 5.1 | 4 | 0 | . | 5 |
| 562 | 2 | 2 | 562 | . | . | 4 | 2.8 | 5 | 2 | . | 5 |
| 563 | 2 | 2 | 563 | 50 | 26 | 3 | 5.2 | 3 | 0 | . | 5 |
| 564 | 2 | 2 | 564 | 56 | 19 | 2 | 6.5 | 4 | 0 | . | 5 |
| 565 | 2 | 2 | 565 | 59 | 23 | 2 | 3.0 | 4 | 0 | . | 5 |
| 566 | 2 | 2 | 566 | 43 | 16 | 2 | 6.4 | 1 | 1 | 23 | 5 |
| 567 | 2 | 2 | 567 | 50 | 9 | 2 | 6.0 | 1 | 1 | 21 | 5 |
| 568 | 2 | 2 | 568 | 53 | 9 | 2 | 5.9 | 4 | 1 | 23 | 5 |
| 569 | 2 | 2 | 569 | 57 | 9 | 2 | 7.0 | 1 | 0 | . | 5 |
| 570 | 2 | 2 | 570 | 51 | 9 | 2 | 6.1 | 4 | 0 | . | 5 |
| 571 | 2 | 2 | 571 | . | . | 4 | 3.1 | 5 | 2 | . | 5 |
| 572 | 2 | 2 | 572 | 43 | 7 | 2 | 5.3 | 3 | 0 | . | 5 |
| 573 | 2 | 2 | 573 | 38 | 2 | 2 | 4.7 | 3 | 0 | . | 5 |
| 574 | 2 | 2 | 574 | 39 | 2 | 2 | 3.7 | 4 | 0 | . | 5 |
| 575 | 2 | 2 | 575 | 50 | 4 | 2 | 5.5 | 3 | 0 | . | 5 |
| 576 | 2 | 2 | 576 | . | . | 3 | 2.0 | 5 | 2 | . | 5 |
| 577 | 2 | 2 | 577 | 58 | 1 | 3 | 4.0 | 4 | 0 | . | 5 |
| 578 | 2 | 2 | 578 | 60 | 4 | 2 | 5.1 | 3 | 1 | 18 | 5 |
| 579 | 2 | 2 | 579 | 63 | 0 | 2 | 7.0 | 1 | 0 | . | 5 |
| 580 | 2 | 2 | 580 | 73 | 58 | 2 | 5.6 | 3 | 1 | 16 | 5 |
| 581 | 2 | 2 | 581 | 81 | 58 | 3 | 3.9 | 3 | 0 | . | 5 |
| 582 | 2 | 2 | 582 | 91 | 65 | 3 | 3.5 | 3 | 0 | . | 5 |
| 583 | 2 | 2 | 583 | 93 | 56 | 2 | 5.4 | 1 | 0 | . | 5 |
| 584 | 2 | 2 | 584 | 94 | 46 | 2 | 5.1 | 3 | 0 | . | 5 |
| 585 | 2 | 2 | 585 | 88 | 51 | 2 | 5.5 | 3 | 0 | . | 5 |
| 586 | 2 | 2 | 586 | 86 | 45 | 2 | 6.2 | 1 | 1 | 22 | 5 |
| 587 | 2 | 2 | 587 | 76 | 49 | 3 | 4.1 | 3 | 1 | 15 | 5 |
| 588 | 2 | 2 | 588 | 69 | 48 | 2 | 5.8 | 1 | 0 | . | 5 |
| 589 | 2 | 2 | 589 | 78 | 37 | 2 | 5.9 | 1 | 1 | 21 | 5 |
| 590 | 2 | 2 | 590 | . | . | 3 | 3.7 | 5 | 2 | . | 5 |
| 591 | 2 | 2 | 591 | 89 | 40 | 2 | 6.4 | 1 | 0 | . | 5 |
| 592 | 2 | 2 | 592 | 89 | 37 | 3 | 4.2 | 4 | 1 | 15 | 5 |
| 593 | 2 | 2 | 593 | 81 | 36 | 2 | 5.8 | 3 | 1 | 21 | 5 |
| 594 | 2 | 2 | 594 | 69 | 33 | 2 | 7.7 | 1 | 0 | . | 5 |
| 595 | 2 | 2 | 595 | . | . | 4 | 3.2 | 5 | 2 | . | 5 |
| 596 | 2 | 2 | 596 | 83 | 28 | 2 | 7.9 | 1 | 1 | 29 | 5 |
| 597 | 2 | 2 | 597 | 89 | 29 | 2 | 7.2 | 3 | 1 | 23 | 5 |
| 598 | 2 | 2 | 598 | . | . | 4 | 1.9 | 5 | 2 | . | 5 |
| 599 | 2 | 2 | 599 | 87 | 20 | 2 | 6.0 | 3 | 0 | . | 5 |
| 600 | 2 | 2 | 600 | 73 | 22 | 2 | 7.0 | 1 | 1 | 24 | 5 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 601 | 2 | 2 | 601 | 70 | 24 | 2 | 5.6 | 4 | 1 | 21 | 5 |
| 602 | 2 | 2 | 602 | 67 | 22 | 2 | 6.5 | 1 | 1 | 25 | 5 |
| 603 | 2 | 2 | 603 | 71 | 14 | 2 | 6.7 | 4 | 0 | . | 5 |
| 604 | 2 | 2 | 604 | . | . | 4 | 2.8 | 5 | 2 | . | 5 |
| 605 | 2 | 2 | 605 | 70 | 7 | 2 | 5.6 | 3 | 0 | . | 5 |
| 606 | 2 | 2 | 606 | 77 | 9 | 2 | 4.5 | 3 | 0 | . | 5 |
| 607 | 2 | 2 | 607 | 78 | 10 | 2 | 4.7 | 4 | 1 | 19 | 5 |
| 608 | 2 | 2 | 608 | 79 | 11 | 2 | 5.4 | 3 | 0 | . | 5 |
| 609 | 2 | 2 | 609 | . | . | 4 | 3.0 | 5 | 2 | . | 5 |
| 610 | 2 | 2 | 610 | 82 | 10 | 2 | 5.5 | 3 | 1 | 21 | 5 |
| 611 | 2 | 2 | 611 | . | . | 4 | 4.5 | 5 | 2 | . | 5 |
| 612 | 2 | 2 | 612 | 89 | 11 | 2 | 5.9 | 3 | 1 | 23 | 5 |
| 613 | 2 | 2 | 613 | 88 | 9 | 2 | 5.8 | 3 | 1 | 21 | 5 |
| 614 | 2 | 2 | 614 | 92 | 8 | 3 | 4.4 | 3 | 0 | . | 5 |
| 615 | 2 | 2 | 615 | . | . | 3 | 2.7 | 5 | 2 | . | 5 |
| 616 | 2 | 2 | 616 | 83 | 5 | 3 | 4.5 | 3 | 1 | 18 | 5 |
| 617 | 2 | 2 | 617 | 76 | 7 | 3 | 3.6 | 4 | 0 | . | 5 |
| 618 | 2 | 2 | 618 | 74 | 2 | 3 | 3.8 | 3 | 0 | . | 5 |
| 619 | 2 | 2 | 619 | 76 | 3 | 2 | 4.6 | 3 | 0 | . | 5 |
| 620 | 2 | 2 | 620 | . | . | 4 | 3.5 | 5 | 2 | . | 5 |
| 621 | 2 | 2 | 621 | 77 | 1 | 2 | 5.5 | 1 | 0 | . | 5 |
| 622 | 2 | 2 | 622 | . | . | 4 | 2.5 | 5 | 2 | . | 5 |
| 623 | 2 | 2 | 623 | 98 | 1 | 2 | 5.5 | 1 | 1 | 23 | 5 |
| 624 | 2 | 2 | 624 | . | . | 4 | 3.5 | 5 | 2 | . | 5 |
| 625 | 2 | 3 | 625 | 4 | 56 | 2 | 7.5 | 1 | 0 | . | 1 |
| 626 | 2 | 3 | 626 | 13 | 61 | 2 | 7.2 | 1 | 0 | . | 1 |
| 627 | 2 | 3 | 627 | . | . | 3 | 4.7 | 3 | 2 | . | 1 |
| 628 | 2 | 3 | 628 | 32 | 62 | 2 | 8.0 | 1 | 0 | . | 1 |
| 629 | 2 | 3 | 629 | . | . | 3 | 2.4 | 5 | 2 | . | 1 |
| 630 | 2 | 3 | 630 | . | . | 3 | 3.9 | 5 | 2 | . | 1 |
| 631 | 2 | 3 | 631 | 22 | 54 | 2 | 6.6 | 2 | 0 | . | 1 |
| 632 | 2 | 3 | 632 | 12 | 54 | 2 | 6.2 | 3 | 0 | . | 1 |
| 633 | 2 | 3 | 633 | 9 | 45 | 2 | 7.7 | 3 | 0 | . | 1 |
| 634 | 2 | 3 | 634 | . | . | 3 | 4.5 | 4 | 2 | . | 1 |
| 635 | 2 | 3 | 635 | 15 | 35 | 2 | 7.1 | 2 | 0 | . | 1 |
| 636 | 2 | 3 | 636 | 19 | 34 | 2 | 6.6 | 1 | 0 | . | 1 |
| 637 | 2 | 3 | 637 | 19 | 38 | 3 | 5.8 | 3 | 0 | . | 1 |
| 638 | 2 | 3 | 638 | 25 | 43 | 2 | 6.5 | 2 | 0 | . | 1 |
| 639 | 2 | 3 | 639 | 33 | 45 | 2 | 8.4 | 1 | 0 | . | 1 |
| 640 | 2 | 3 | 640 | 37 | 44 | 2 | 6.7 | 3 | 0 | . | 1 |
| 641 | 2 | 3 | 641 | 33 | 38 | 2 | 6.8 | 3 | 0 | . | 1 |
| 642 | 2 | 3 | 642 | . | . | 3 | 3.2 | 4 | 2 | . | 1 |
| 643 | 2 | 3 | 643 | . | . | 4 | 2.2 | 5 | 2 | . | 1 |
| 644 | 2 | 3 | 644 | . | . | 3 | 4.9 | 3 | 2 | . | 1 |
| 645 | 2 | 3 | 645 | 2 | 20 | 2 | 6.7 | 1 | 0 | . | 1 |
| 646 | 2 | 3 | 646 | 15 | 14 | 2 | 5.0 | 1 | 0 | . | 1 |
| 647 | 2 | 3 | 647 | 21 | 23 | 2 | 5.8 | 1 | 0 | . | 1 |
| 648 | 2 | 3 | 648 | . | . | 4 | 2.7 | 5 | 2 | . | 1 |
| 649 | 2 | 3 | 649 | 24 | 15 | 2 | 5.4 | 2 | 0 | . | 1 |
| 650 | 2 | 3 | 650 | 30 | 28 | 2 | 7.1 | 1 | 0 | . | 1 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 651 | 2 | 3 | 651 | 29 | 18 | 2 | 6.4 | 3 | 0 | . | 1 |
| 652 | 2 | 3 | 652 | 28 | 8 | 2 | 6.0 | 3 | 0 | . | 1 |
| 653 | 2 | 3 | 653 | 20 | 4 | 2 | 5.3 | 3 | 0 | . | 1 |
| 654 | 2 | 3 | 654 | 19 | 4 | 2 | 5.9 | 3 | 0 | . | 1 |
| 655 | 2 | 3 | 655 | 7 | 7 | 2 | 8.6 | 1 | 0 | . | 1 |
| 656 | 2 | 3 | 656 | 15 | 2 | 2 | 6.6 | 1 | 0 | . | 1 |
| 657 | 2 | 3 | 657 | 26 | 3 | 2 | 7.5 | 2 | 0 | . | 1 |
| 658 | 2 | 3 | 658 | 37 | 63 | 2 | 7.0 | 3 | 0 | . | 1 |
| 659 | 2 | 3 | 659 | 47 | 65 | 2 | 6.8 | 2 | 0 | . | 1 |
| 660 | 2 | 3 | 660 | 54 | 64 | 2 | 6.7 | 1 | 0 | . | 1 |
| 661 | 2 | 3 | 661 | 67 | 66 | 2 | 6.4 | 1 | 0 | . | 1 |
| 662 | 2 | 3 | 662 | 72 | 60 | 2 | 6.2 | 2 | 0 | . | 1 |
| 663 | 2 | 3 | 663 | 64 | 63 | 2 | 5.6 | 3 | 0 | . | 1 |
| 664 | 2 | 3 | 664 | 52 | 63 | 2 | 6.3 | 3 | 0 | . | 1 |
| 665 | 2 | 3 | 665 | . | . | 2 | 6.5 | 4 | 2 | . | 1 |
| 666 | 2 | 3 | 666 | 48 | 59 | 2 | 6.2 | 2 | 0 | . | 1 |
| 667 | 2 | 3 | 667 | 46 | 40 | 2 | 6.0 | 2 | 0 | . | 1 |
| 668 | 2 | 3 | 668 | 50 | 45 | 2 | 5.6 | 3 | 0 | . | 1 |
| 669 | 2 | 3 | 669 | 52 | 51 | 2 | 5.6 | 2 | 0 | . | 1 |
| 670 | 2 | 3 | 670 | 53 | 44 | 2 | 6.4 | 2 | 0 | . | 1 |
| 671 | 2 | 3 | 671 | 60 | 48 | 2 | 5.1 | 3 | 0 | . | 1 |
| 672 | 2 | 3 | 672 | 65 | 56 | 2 | 6.4 | 1 | 0 | . | 1 |
| 673 | 2 | 3 | 673 | 67 | 41 | 2 | 6.5 | 1 | 0 | . | 1 |
| 674 | 2 | 3 | 674 | 64 | 43 | 2 | 7.1 | 1 | 0 | . | 1 |
| 675 | 2 | 3 | 675 | . | . | 4 | 4.3 | 5 | 2 | . | 1 |
| 676 | 2 | 3 | 676 | 50 | 38 | 2 | 6.7 | 1 | 0 | . | 1 |
| 677 | 2 | 3 | 677 | . | . | 3 | 3.2 | 3 | 2 | . | 1 |
| 678 | 2 | 3 | 678 | . | . | 4 | 3.6 | 5 | 2 | . | 1 |
| 679 | 2 | 3 | 679 | . | . | 2 | 4.6 | 3 | 2 | . | 1 |
| 680 | 2 | 3 | 680 | 41 | 30 | 2 | 6.8 | 1 | 0 | . | 1 |
| 681 | 2 | 3 | 681 | . | . | 4 | 2.8 | 5 | 2 | . | 1 |
| 682 | 2 | 3 | 682 | . | . | 4 | 3.3 | 5 | 2 | . | 1 |
| 683 | 2 | 3 | 683 | . | . | 3 | 3.8 | 3 | 2 | . | 1 |
| 684 | 2 | 3 | 684 | . | . | 4 | 2.3 | 5 | 2 | . | 1 |
| 685 | 2 | 3 | 685 | . | . | 4 | 2.8 | 5 | 2 | . | 1 |
| 686 | 2 | 3 | 686 | 57 | 32 | 3 | 4.0 | 2 | 0 | . | 1 |
| 687 | 2 | 3 | 687 | . | . | 3 | 3.6 | 3 | 2 | . | 1 |
| 688 | 2 | 3 | 688 | 66 | 32 | 2 | 6.4 | 1 | 0 | . | 1 |
| 689 | 2 | 3 | 689 | . | . | 4 | 1.7 | 5 | 2 | . | 1 |
| 690 | 2 | 3 | 690 | . | . | 4 | 1.7 | 5 | 2 | . | 1 |
| 691 | 2 | 3 | 691 | . | . | 4 | 2.1 | 5 | 2 | . | 1 |
| 692 | 2 | 3 | 692 | . | . | 4 | 3.0 | 5 | 2 | . | 1 |
| 693 | 2 | 3 | 693 | . | . | 3 | 2.5 | 3 | 2 | . | 1 |
| 694 | 2 | 3 | 694 | . | . | 4 | 2.6 | 5 | 2 | . | 1 |
| 695 | 2 | 3 | 695 | . | . | 4 | 2.3 | 5 | 2 | . | 1 |
| 696 | 2 | 3 | 696 | 51 | 21 | 2 | 5.4 | 1 | 0 | . | 1 |
| 697 | 2 | 3 | 697 | 43 | 23 | 2 | 5.7 | 3 | 0 | . | 1 |
| 698 | 2 | 3 | 698 | . | . | 4 | 2.9 | 5 | 2 | . | 1 |
| 699 | 2 | 3 | 699 | 40 | 19 | 2 | 6.0 | 3 | 0 | . | 1 |
| 700 | 2 | 3 | 700 | 35 | 14 | 2 | 7.7 | 1 | 0 | . | 1 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 701 | 2 | 3 | 701 | . | . | 4 | 2.9 | 5 | 2 | . | 1 |
| 702 | 2 | 3 | 702 | 59 | 15 | 2 | 5.6 | 3 | 0 | . | 1 |
| 703 | 2 | 3 | 703 | 67 | 22 | 2 | 6.9 | 3 | 0 | . | 1 |
| 704 | 2 | 3 | 704 | . | . | 3 | 3.9 | 3 | 2 | . | 1 |
| 705 | 2 | 3 | 705 | 64 | 14 | 2 | 6.5 | 1 | 0 | . | 1 |
| 706 | 2 | 3 | 706 | 54 | 10 | 2 | 6.3 | 2 | 0 | . | 1 |
| 707 | 2 | 3 | 707 | . | . | 2 | 4.7 | 3 | 2 | . | 1 |
| 708 | 2 | 3 | 708 | . | . | 2 | 4.7 | 3 | 2 | . | 1 |
| 709 | 2 | 3 | 709 | . | . | 4 | 1.5 | 5 | 2 | . | 1 |
| 710 | 2 | 3 | 710 | . | . | 2 | 3.9 | 3 | 2 | . | 1 |
| 711 | 2 | 3 | 711 | . | . | 2 | 4.6 | 4 | 2 | . | 1 |
| 712 | 2 | 3 | 712 | 62 | 1 | 2 | 5.8 | 2 | 0 | . | 1 |
| 713 | 2 | 3 | 713 | 78 | 65 | 2 | 5.2 | 2 | 0 | . | 1 |
| 714 | 2 | 3 | 714 | 86 | 66 | 2 | 6.3 | 3 | 0 | . | 1 |
| 715 | 2 | 3 | 715 | 91 | 66 | 2 | 6.1 | 2 | 0 | . | 1 |
| 716 | 2 | 3 | 716 | 99 | 66 | 2 | 5.6 | 1 | 0 | . | 1 |
| 717 | 2 | 3 | 717 | 95 | 63 | 2 | 7.0 | 2 | 0 | . | 1 |
| 718 | 2 | 3 | 718 | 84 | 63 | 2 | 5.7 | 3 | 0 | . | 1 |
| 719 | 2 | 3 | 719 | 76 | 61 | 2 | 6.1 | 3 | 0 | . | 1 |
| 720 | 2 | 3 | 720 | . | . | 2 | 6.8 | 4 | 2 | . | 1 |
| 721 | 2 | 3 | 721 | 84 | 53 | 2 | 7.6 | 1 | 0 | . | 1 |
| 722 | 2 | 3 | 722 | . | . | 2 | 5.8 | 4 | 2 | . | 1 |
| 723 | 2 | 3 | 723 | 92 | 53 | 2 | 7.8 | 2 | 0 | . | 1 |
| 724 | 2 | 3 | 724 | 86 | 48 | 2 | 8.3 | 2 | 0 | . | 1 |
| 725 | 2 | 3 | 725 | . | . | 2 | 6.3 | 4 | 2 | . | 1 |
| 726 | 2 | 3 | 726 | 74 | 37 | 3 | 5.2 | 2 | 0 | . | 1 |
| 727 | 2 | 3 | 727 | 82 | 40 | 2 | 5.1 | 3 | 0 | . | 1 |
| 728 | 2 | 3 | 728 | . | . | 3 | 2.7 | 3 | 2 | . | 1 |
| 729 | 2 | 3 | 729 | . | . | 3 | 2.8 | 5 | 2 | . | 1 |
| 730 | 2 | 3 | 730 | 89 | 30 | 2 | 8.6 | 1 | 0 | . | 1 |
| 731 | 2 | 3 | 731 | 85 | 32 | 2 | 7.8 | 3 | 0 | . | 1 |
| 732 | 2 | 3 | 732 | . | . | 3 | 4.1 | 4 | 2 | . | 1 |
| 733 | 2 | 3 | 733 | 78 | 16 | 3 | 5.2 | 2 | 0 | . | 1 |
| 734 | 2 | 3 | 734 | 88 | 20 | 2 | 7.0 | 2 | 0 | . | 1 |
| 735 | 2 | 3 | 735 | . | . | 2 | 4.4 | 3 | 2 | . | 1 |
| 736 | 2 | 3 | 736 | . | . | 4 | 4.5 | 4 | 2 | . | 1 |
| 737 | 2 | 3 | 737 | 71 | 1 | 2 | 6.4 | 2 | 0 | . | 1 |
| 738 | 2 | 3 | 738 | . | . | 4 | 3.4 | 5 | 2 | . | 1 |
| 739 | 2 | 3 | 739 | 85 | 1 | 2 | 7.1 | 1 | 0 | . | 1 |
| 740 | 2 | 3 | 740 | 94 | 2 | 4 | 4.0 | 2 | 0 | . | 1 |
| 741 | 2 | 4 | 741 | . | . | 3 | 3.4 | 4 | 2 | . | 4 |
| 742 | 2 | 4 | 742 | 14 | 65 | 3 | 3.6 | 3 | 0 | . | 4 |
| 743 | 2 | 4 | 743 | . | . | 3 | 4.0 | 4 | 2 | . | 4 |
| 744 | 2 | 4 | 744 | 19 | 56 | 2 | 5.6 | 2 | 0 | . | 4 |
| 745 | 2 | 4 | 745 | 20 | 49 | 2 | 5.5 | 2 | 0 | . | 4 |
| 746 | 2 | 4 | 746 | 3 | 57 | 3 | 4.7 | 3 | 0 | . | 4 |
| 747 | 2 | 4 | 747 | 11 | 47 | 2 | 6.3 | 3 | 0 | . | 4 |
| 748 | 2 | 4 | 748 | 2 | 48 | 1 | 7.9 | 1 | 1 | 23 | 4 |
| 749 | 2 | 4 | 749 | 0 | 38 | 3 | 4.8 | 3 | 0 | . | 4 |
| 750 | 2 | 4 | 750 | . | . | 3 | 4.2 | 4 | 2 | . | 4 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 751 | 2 | 4 | 751 | 9 | 37 | 2 | 5.8 | 2 | 0 | . | 4 |
| 752 | 2 | 4 | 752 | . | . | 3 | 3.8 | 4 | 2 | . | 4 |
| 753 | 2 | 4 | 753 | 22 | 43 | 3 | 4.9 | 2 | 0 | . | 4 |
| 754 | 2 | 4 | 754 | 28 | 40 | 2 | 5.2 | 2 | 0 | . | 4 |
| 755 | 2 | 4 | 755 | . | . | 4 | 2.4 | 5 | 2 | . | 4 |
| 756 | 2 | 4 | 756 | 26 | 34 | 2 | 4.5 | 3 | 0 | . | 4 |
| 757 | 2 | 4 | 757 | 31 | 36 | 2 | 5.9 | 2 | 0 | . | 4 |
| 758 | 2 | 4 | 758 | 29 | 33 | 2 | 4.8 | 4 | 0 | . | 4 |
| 759 | 2 | 4 | 759 | 28 | 32 | 2 | 4.8 | 2 | 0 | . | 4 |
| 760 | 2 | 4 | 760 | 27 | 31 | 3 | 4.6 | 4 | 0 | . | 4 |
| 761 | 2 | 4 | 761 | 21 | 30 | 2 | 5.5 | 2 | 0 | . | 4 |
| 762 | 2 | 4 | 762 | . | . | 4 | 4.5 | 5 | 2 | . | 4 |
| 763 | 2 | 4 | 763 | . | . | 3 | 4.3 | 4 | 2 | . | 4 |
| 764 | 2 | 4 | 764 | . | . | 3 | 4.3 | 4 | 2 | . | 4 |
| 765 | 2 | 4 | 765 | . | . | 3 | 3.8 | 4 | 2 | . | 4 |
| 766 | 2 | 4 | 766 | 1 | 22 | 2 | 5.1 | 4 | 0 | . | 4 |
| 767 | 2 | 4 | 767 | 3 | 21 | 2 | 5.9 | 1 | 0 | . | 4 |
| 768 | 2 | 4 | 768 | 7 | 24 | 3 | 5.2 | 4 | 0 | . | 4 |
| 769 | 2 | 4 | 769 | 15 | 23 | 2 | 5.1 | 2 | 0 | . | 4 |
| 770 | 2 | 4 | 770 | 28 | 25 | 3 | 4.9 | 4 | 0 | . | 4 |
| 771 | 2 | 4 | 771 | 29 | 25 | 2 | 4.9 | 2 | 0 | . | 4 |
| 772 | 2 | 4 | 772 | 27 | 16 | 2 | 5.7 | 2 | 0 | . | 4 |
| 773 | 2 | 4 | 773 | 25 | 13 | 2 | 6.1 | 2 | 0 | . | 4 |
| 774 | 2 | 4 | 774 | 24 | 15 | 3 | 4.5 | 4 | 0 | . | 4 |
| 775 | 2 | 4 | 775 | 17 | 15 | 2 | 6.1 | 1 | 0 | . | 4 |
| 776 | 2 | 4 | 776 | 10 | 13 | 3 | 4.4 | 4 | 0 | . | 4 |
| 777 | 2 | 4 | 777 | . | . | 3 | 3.5 | 4 | 2 | . | 4 |
| 778 | 2 | 4 | 778 | 8 | 16 | 2 | 4.2 | 3 | 0 | . | 4 |
| 779 | 2 | 4 | 779 | 7 | 10 | 2 | 6.8 | 1 | 1 | 22 | 4 |
| 780 | 2 | 4 | 780 | . | . | 3 | 4.0 | 4 | 2 | . | 4 |
| 781 | 2 | 4 | 781 | . | . | 3 | 2.8 | 4 | 2 | . | 4 |
| 782 | 2 | 4 | 782 | . | . | 3 | 3.5 | 4 | 2 | . | 4 |
| 783 | 2 | 4 | 783 | 17 | 9 | 3 | 4.3 | 3 | 0 | . | 4 |
| 784 | 2 | 4 | 784 | 25 | 6 | 2 | 5.7 | 2 | 0 | . | 4 |
| 785 | 2 | 4 | 785 | . | . | 3 | 4.1 | 4 | 2 | . | 4 |
| 786 | 2 | 4 | 786 | 28 | 7 | 3 | 4.7 | 4 | 0 | . | 4 |
| 787 | 2 | 4 | 787 | 34 | 66 | 3 | 4.5 | 4 | 0 | . | 4 |
| 788 | 2 | 4 | 788 | . | . | 3 | 4.2 | 4 | 2 | . | 4 |
| 789 | 2 | 4 | 789 | 41 | 66 | 2 | 5.6 | 3 | 0 | . | 4 |
| 790 | 2 | 4 | 790 | 46 | 59 | 3 | 4.9 | 4 | 0 | . | 4 |
| 791 | 2 | 4 | 791 | 41 | 62 | 2 | 6.0 | 3 | 0 | . | 4 |
| 792 | 2 | 4 | 792 | 35 | 60 | 2 | 6.2 | 1 | 0 | . | 4 |
| 793 | 2 | 4 | 793 | 32 | 57 | 2 | 6.5 | 2 | 0 | . | 4 |
| 794 | 2 | 4 | 794 | 45 | 55 | 2 | 4.9 | 3 | 0 | . | 4 |
| 795 | 2 | 4 | 795 | 44 | 48 | 2 | 6.4 | 2 | 0 | . | 4 |
| 796 | 2 | 4 | 796 | 33 | 43 | 3 | 4.6 | 3 | 0 | . | 4 |
| 797 | 2 | 4 | 797 | 35 | 39 | 2 | 5.6 | 4 | 0 | . | 4 |
| 798 | 2 | 4 | 798 | 40 | 42 | 3 | 4.5 | 4 | 0 | . | 4 |
| 799 | 2 | 4 | 799 | . | . | 3 | 4.0 | 4 | 2 | . | 4 |
| 800 | 2 | 4 | 800 | 50 | 38 | 3 | 3.5 | 3 | 0 | . | 4 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 801 | 2 | 4 | 801 | 40 | 38 | 2 | 4.8 | 2 | 0 | . | 4 |
| 802 | 2 | 4 | 802 | . | . | 3 | 4.0 | 4 | 2 | . | 4 |
| 803 | 2 | 4 | 803 | 41 | 29 | 2 | 4.2 | 3 | 0 | . | 4 |
| 804 | 2 | 4 | 804 | . | . | 3 | 2.7 | 4 | 2 | . | 4 |
| 805 | 2 | 4 | 805 | . | . | 4 | 2.5 | 5 | 2 | . | 4 |
| 806 | 2 | 4 | 806 | 52 | 27 | 2 | 4.4 | 2 | 0 | . | 4 |
| 807 | 2 | 4 | 807 | . | . | 3 | 4.0 | 4 | 2 | . | 4 |
| 808 | 2 | 4 | 808 | 44 | 23 | 2 | 5.0 | 2 | 0 | . | 4 |
| 809 | 2 | 4 | 809 | . | . | 3 | 4.0 | 4 | 2 | . | 4 |
| 810 | 2 | 4 | 810 | 41 | 26 | 2 | 4.4 | 3 | 0 | . | 4 |
| 811 | 2 | 4 | 811 | 38 | 22 | 2 | 4.7 | 3 | 0 | . | 4 |
| 812 | 2 | 4 | 812 | . | . | 4 | 3.2 | 5 | 2 | . | 4 |
| 813 | 2 | 4 | 813 | . | . | 3 | 4.2 | 4 | 2 | . | 4 |
| 814 | 2 | 4 | 814 | . | . | 3 | 3.4 | 4 | 2 | . | 4 |
| 815 | 2 | 4 | 815 | 36 | 11 | 2 | 6.0 | 2 | 0 | . | 4 |
| 816 | 2 | 4 | 816 | 39 | 12 | 3 | 4.5 | 4 | 0 | . | 4 |
| 817 | 2 | 4 | 817 | . | . | 3 | 4.2 | 4 | 2 | . | 4 |
| 818 | 2 | 4 | 818 | 42 | 10 | 2 | 5.4 | 4 | 0 | . | 4 |
| 819 | 2 | 4 | 819 | 44 | 11 | 2 | 6.3 | 2 | 0 | . | 4 |
| 820 | 2 | 4 | 820 | . | . | 3 | 3.8 | 4 | 2 | . | 4 |
| 821 | 2 | 4 | 821 | 43 | 1 | 2 | 6.4 | 1 | 0 | . | 4 |
| 822 | 2 | 4 | 822 | 51 | 66 | 2 | 6.8 | 4 | 0 | . | 4 |
| 823 | 2 | 4 | 823 | . | . | 4 | 2.7 | 5 | 2 | . | 4 |
| 824 | 2 | 4 | 824 | 66 | 63 | 3 | 5.2 | 3 | 0 | . | 4 |
| 825 | 2 | 4 | 825 | 58 | 63 | 3 | 4.4 | 4 | 0 | . | 4 |
| 826 | 2 | 4 | 826 | 57 | 62 | 2 | 5.5 | 3 | 0 | . | 4 |
| 827 | 2 | 4 | 827 | 50 | 59 | 3 | 5.4 | 4 | 0 | . | 4 |
| 828 | 2 | 4 | 828 | 49 | 59 | 2 | 5.4 | 2 | 0 | . | 4 |
| 829 | 2 | 4 | 829 | 63 | 62 | 2 | 5.6 | 4 | 0 | . | 4 |
| 830 | 2 | 4 | 830 | 62 | 58 | 2 | 6.5 | 1 | 1 | 22 | 4 |
| 831 | 2 | 4 | 831 | 58 | 52 | 3 | 4.6 | 4 | 0 | . | 4 |
| 832 | 2 | 4 | 832 | 57 | 51 | 3 | 4.8 | 2 | 0 | . | 4 |
| 833 | 2 | 4 | 833 | 58 | 44 | 2 | 5.2 | 3 | 0 | . | 4 |
| 834 | 2 | 4 | 834 | 64 | 44 | 2 | 5.1 | 3 | 0 | . | 4 |
| 835 | 2 | 4 | 835 | 65 | 51 | 2 | 6.1 | 1 | 0 | . | 4 |
| 836 | 2 | 4 | 836 | 66 | 39 | 3 | 4.8 | 4 | 0 | . | 4 |
| 837 | 2 | 4 | 837 | . | . | 2 | 4.7 | 5 | 2 | . | 4 |
| 838 | 2 | 4 | 838 | 58 | 35 | 2 | 5.7 | 3 | 0 | . | 4 |
| 839 | 2 | 4 | 839 | 65 | 35 | 2 | 7.3 | 1 | 1 | 23 | 4 |
| 840 | 2 | 4 | 840 | 61 | 19 | 3 | 4.5 | 4 | 0 | . | 4 |
| 841 | 2 | 4 | 841 | 55 | 16 | 3 | 4.7 | 4 | 0 | . | 4 |
| 842 | 2 | 4 | 842 | 52 | 18 | 1 | 7.7 | 1 | 1 | 25 | 4 |
| 843 | 2 | 4 | 843 | 59 | 17 | 3 | 4.4 | 4 | 0 | . | 4 |
| 844 | 2 | 4 | 844 | 64 | 9 | 3 | 3.9 | 3 | 0 | . | 4 |
| 845 | 2 | 4 | 845 | . | . | 3 | 4.1 | 4 | 2 | . | 4 |
| 846 | 2 | 4 | 846 | 55 | 3 | 2 | 4.8 | 2 | 0 | . | 4 |
| 847 | 3 | 1 | 1 | 99 | 5 | 2 | 5.9 | 2 | 0 | . | 2 |
| 848 | 3 | 1 | 2 | . | . | 3 | 4.4 | 4 | 2 | . | 2 |
| 849 | 3 | 1 | 3 | 99 | 9 | 2 | 6.2 | 2 | 0 | . | 2 |
| 850 | 3 | 1 | 4 | 85 | 13 | 2 | 6.5 | 2 | 0 | . | 2 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 851 | 3 | 1 | 5 | 96 | 14 | 2 | 8.3 | 2 | 0 | . | 2 |
| 852 | 3 | 1 | 6 | 88 | 27 | 2 | 5.7 | 2 | 0 | . | 2 |
| 853 | 3 | 1 | 7 | 94 | 24 | 2 | 6.8 | 1 | 0 | . | 2 |
| 854 | 3 | 1 | 8 | 94 | 33 | 3 | 4.0 | 2 | 0 | . | 2 |
| 855 | 3 | 1 | 9 | . | . | 3 | 4.4 | 4 | 2 | . | 2 |
| 856 | 3 | 1 | 10 | 89 | 44 | 2 | 6.0 | 1 | 0 | . | 2 |
| 857 | 3 | 1 | 11 | 98 | 44 | 2 | 7.0 | 4 | 0 | . | 2 |
| 858 | 3 | 1 | 12 | 91 | 55 | 2 | 9.6 | 1 | 1 | 18 | 2 |
| 859 | 3 | 1 | 13 | 99 | 59 | 2 | 6.9 | 2 | 0 | . | 2 |
| 860 | 3 | 1 | 14 | 83 | 62 | 2 | 7.9 | 1 | 0 | . | 2 |
| 861 | 3 | 1 | 15 | 75 | 3 | 3 | 4.5 | 3 | 0 | . | 2 |
| 862 | 3 | 1 | 16 | 67 | 7 | 3 | 4.7 | 3 | 0 | . | 2 |
| 863 | 3 | 1 | 17 | 61 | 2 | 2 | 8.0 | 3 | 0 | . | 2 |
| 864 | 3 | 1 | 18 | 77 | 19 | 2 | 8.0 | 1 | 1 | 21 | 2 |
| 865 | 3 | 1 | 19 | . | . | 3 | 1.8 | 4 | 2 | . | 2 |
| 866 | 3 | 1 | 20 | 78 | 23 | 2 | 7.0 | 3 | 0 | . | 2 |
| 867 | 3 | 1 | 21 | 75 | 28 | 3 | 2.5 | 3 | 0 | . | 2 |
| 868 | 3 | 1 | 22 | 66 | 22 | 3 | 3.0 | 3 | 0 | . | 2 |
| 869 | 3 | 1 | 23 | 62 | 29 | 3 | 3.2 | 3 | 0 | . | 2 |
| 870 | 3 | 1 | 24 | 55 | 27 | 2 | 5.5 | 1 | 0 | . | 2 |
| 871 | 3 | 1 | 25 | 65 | 41 | 2 | 5.0 | 2 | 0 | . | 2 |
| 872 | 3 | 1 | 26 | 55 | 39 | 2 | 3.9 | 2 | 0 | . | 2 |
| 873 | 3 | 1 | 27 | 56 | 48 | 3 | 2.8 | 3 | 0 | . | 2 |
| 874 | 3 | 1 | 28 | 61 | 52 | 3 | 2.5 | 2 | 0 | . | 2 |
| 875 | 3 | 1 | 29 | 71 | 63 | 2 | 5.5 | 1 | 0 | . | 2 |
| 876 | 3 | 1 | 30 | 57 | 59 | 3 | 2.1 | 3 | 0 | . | 2 |
| 877 | 3 | 1 | 31 | . | . | 3 | 2.9 | 4 | 2 | . | 2 |
| 878 | 3 | 1 | 32 | 60 | 15 | 2 | 4.2 | 1 | 0 | . | 2 |
| 879 | 3 | 1 | 33 | . | . | 3 | 2.0 | 4 | 2 | . | 2 |
| 880 | 3 | 1 | 34 | 46 | 24 | 3 | 3.0 | 2 | 0 | . | 2 |
| 881 | 3 | 1 | 35 | 43 | 34 | 3 | 2.8 | 3 | 0 | . | 2 |
| 882 | 3 | 1 | 36 | 52 | 34 | 3 | 3.9 | 3 | 0 | . | 2 |
| 883 | 3 | 1 | 37 | 47 | 41 | 3 | 2.6 | 2 | 0 | . | 2 |
| 884 | 3 | 1 | 38 | 39 | 28 | 3 | 3.8 | 1 | 1 | 14 | 2 |
| 885 | 3 | 1 | 39 | 35 | 37 | 2 | 5.0 | 1 | 1 | 14 | 2 |
| 886 | 3 | 1 | 40 | 35 | 44 | 3 | 3.7 | 2 | 0 | . | 2 |
| 887 | 3 | 1 | 41 | 23 | 46 | 3 | 3.9 | 2 | 0 | . | 2 |
| 888 | 3 | 1 | 42 | 22 | 51 | 3 | 3.6 | 2 | 0 | . | 2 |
| 889 | 3 | 1 | 43 | 36 | 62 | 2 | 7.8 | 1 | 0 | . | 2 |
| 890 | 3 | 1 | 44 | 43 | 52 | 2 | 7.4 | 1 | 1 | 20 | 2 |
| 891 | 3 | 1 | 45 | 43 | 55 | 2 | 8.5 | 3 | 0 | . | 2 |
| 892 | 3 | 1 | 46 | 47 | 62 | 2 | 4.5 | 2 | 0 | . | 2 |
| 893 | 3 | 1 | 47 | 32 | 50 | 3 | 1.5 | 3 | 0 | . | 2 |
| 894 | 3 | 1 | 48 | . | . | 3 | 2.2 | 5 | 2 | . | 2 |
| 895 | 3 | 1 | 49 | 36 | 5 | 3 | 2.2 | 3 | 0 | . | 2 |
| 896 | 3 | 1 | 50 | 43 | 7 | 2 | 5.6 | 3 | 0 | . | 2 |
| 897 | 3 | 1 | 51 | 47 | 12 | 2 | 4.2 | 1 | 0 | . | 2 |
| 898 | 3 | 1 | 52 | 45 | 47 | 3 | 3.3 | 3 | 0 | . | 2 |
| 899 | 3 | 1 | 53 | 36 | 15 | 3 | 2.9 | 2 | 0 | . | 2 |
| 900 | 3 | 1 | 54 | 36 | 25 | 3 | 3.0 | 3 | 0 | . | 2 |

Listing of  Ident (1990) + Observed (1991-97)          19
08:11 Thursday, October 15, 1998

Listing of  Ident (1990) + Observed (1991-97)          20
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 901 | 3 | 1 | 55 | . | . | 3 | 3.9 | 5 | 2 | . | 2 |
| 902 | 3 | 1 | 56 | 24 | 9 | 3 | 2.6 | 2 | 0 | . | 2 |
| 903 | 3 | 1 | 57 | 19 | 5 | 3 | 4.2 | 1 | 1 | 13 | 2 |
| 904 | 3 | 1 | 58 | 13 | 13 | 2 | 8.8 | 1 | 0 | . | 2 |
| 905 | 3 | 1 | 59 | 1 | 22 | 2 | 4.8 | 2 | 0 | . | 2 |
| 906 | 3 | 1 | 60 | 15 | 20 | 2 | 7.1 | 4 | 0 | . | 2 |
| 907 | 3 | 1 | 61 | 25 | 22 | 3 | 3.5 | 2 | 0 | . | 2 |
| 908 | 3 | 1 | 62 | 24 | 26 | 3 | 4.9 | 2 | 0 | . | 2 |
| 909 | 3 | 1 | 63 | 14 | 34 | 3 | 4.4 | 1 | 1 | 14 | 2 |
| 910 | 3 | 1 | 64 | . | . | 3 | 2.8 | 4 | 2 | . | 2 |
| 911 | 3 | 1 | 65 | 25 | 34 | 3 | 2.2 | 3 | 0 | . | 2 |
| 912 | 3 | 1 | 66 | 7 | 50 | 3 | 3.6 | 2 | 0 | . | 2 |
| 913 | 3 | 1 | 67 | 3 | 60 | 3 | 4.2 | 2 | 0 | . | 2 |
| 914 | 3 | 1 | 68 | 5 | 66 | 3 | 4.4 | 2 | 0 | . | 2 |
| 915 | 3 | 1 | 69 | 2 | 7 | 3 | 4.4 | 1 | 1 | 17 | 2 |
| 916 | 3 | 2 | 70 | 93 | 6 | 3 | 3.6 | 2 | 0 | . | 5 |
| 917 | 3 | 2 | 71 | 97 | 13 | 3 | 2.2 | 3 | 0 | . | 5 |
| 918 | 3 | 2 | 72 | 90 | 13 | 3 | 4.7 | 1 | 1 | 11 | 5 |
| 919 | 3 | 2 | 73 | 95 | 20 | 3 | 2.3 | 4 | 0 | . | 5 |
| 920 | 3 | 2 | 74 | 89 | 21 | 3 | 2.0 | 3 | 0 | . | 5 |
| 921 | 3 | 2 | 75 | 93 | 25 | 3 | 2.7 | 2 | 0 | . | 5 |
| 922 | 3 | 2 | 76 | 97 | 30 | 2 | 5.4 | 1 | 0 | . | 5 |
| 923 | 3 | 2 | 77 | 92 | 33 | 3 | 3.6 | 3 | 1 | 9 | 5 |
| 924 | 3 | 2 | 78 | 99 | 39 | 2 | 7.3 | 1 | 1 | 17 | 5 |
| 925 | 3 | 2 | 79 | 88 | 37 | 3 | 3.2 | 3 | 1 | 10 | 5 |
| 926 | 3 | 2 | 80 | 83 | 50 | 2 | 4.5 | 1 | 0 | . | 5 |
| 927 | 3 | 2 | 81 | 89 | 58 | 3 | 2.0 | 2 | 0 | . | 5 |
| 928 | 3 | 2 | 82 | 81 | 54 | 3 | 2.5 | 3 | 0 | . | 5 |
| 929 | 3 | 2 | 83 | 81 | 64 | 2 | 5.6 | 2 | 1 | 13 | 5 |
| 930 | 3 | 2 | 84 | 90 | 63 | 3 | 1.3 | 3 | 0 | . | 5 |
| 931 | 3 | 2 | 85 | 83 | 70 | 2 | 5.6 | 2 | 1 | 14 | 5 |
| 932 | 3 | 2 | 86 | 91 | 67 | 2 | 7.3 | 1 | 0 | . | 5 |
| 933 | 3 | 2 | 87 | 97 | 71 | 2 | 7.0 | 1 | 1 | 24 | 5 |
| 934 | 3 | 2 | 88 | 91 | 77 | 3 | 1.8 | 3 | 0 | . | 5 |
| 935 | 3 | 2 | 89 | 98 | 80 | 2 | 7.4 | 1 | 0 | . | 5 |
| 936 | 3 | 2 | 90 | 91 | 73 | 3 | 3.4 | 3 | 0 | . | 5 |
| 937 | 3 | 2 | 91 | 95 | 90 | 2 | 7.0 | 4 | 1 | 21 | 5 |
| 938 | 3 | 2 | 92 | 79 | 80 | 3 | 2.0 | 3 | 0 | . | 5 |
| 939 | 3 | 2 | 93 | 84 | 82 | 3 | 1.3 | 3 | 0 | . | 5 |
| 940 | 3 | 2 | 94 | 85 | 11 | 3 | 4.1 | 2 | 0 | . | 5 |
| 941 | 3 | 2 | 95 | 80 | 14 | 3 | 3.8 | 3 | 0 | . | 5 |
| 942 | 3 | 2 | 96 | 77 | 31 | 2 | 8.2 | 1 | 0 | . | 5 |
| 943 | 3 | 2 | 97 | . | . | 2 | 6.2 | 4 | 2 | . | 5 |
| 944 | 3 | 2 | 98 | 65 | 32 | 2 | 7.0 | 1 | 1 | 16 | 5 |
| 945 | 3 | 2 | 99 | 65 | 41 | 2 | 6.6 | 1 | 1 | 21 | 5 |
| 946 | 3 | 2 | 100 | 62 | 50 | 2 | 5.6 | 2 | 0 | . | 5 |
| 947 | 3 | 2 | 101 | 69 | 56 | 2 | 7.9 | 1 | 0 | . | 5 |
| 948 | 3 | 2 | 102 | . | . | 3 | 4.4 | 1 | 2 | . | 5 |
| 949 | 3 | 2 | 103 | 51 | 73 | 2 | 8.8 | 1 | 1 | 21 | 5 |
| 950 | 3 | 2 | 104 | 56 | 83 | 3 | 3.3 | 2 | 1 | 11 | 5 |
| 951 | 3 | 2 | 105 | 62 | 88 | 3 | 1.2 | 3 | 0 | . | 5 |
| 952 | 3 | 2 | 106 | 68 | 89 | 3 | 1.5 | 4 | 0 | . | 5 |
| 953 | 3 | 2 | 107 | 73 | 94 | 2 | 7.0 | 2 | 1 | 18 | 5 |
| 954 | 3 | 2 | 108 | 66 | 94 | 2 | 8.4 | 1 | 0 | . | 5 |
| 955 | 3 | 2 | 109 | 63 | 97 | 2 | 7.7 | 2 | 1 | 19 | 5 |
| 956 | 3 | 2 | 110 | 57 | 93 | 3 | 4.1 | 3 | 0 | . | 5 |
| 957 | 3 | 2 | 111 | 81 | 7 | 3 | 1.4 | 3 | 0 | . | 5 |
| 958 | 3 | 2 | 112 | 61 | 1 | 3 | 1.3 | 3 | 0 | . | 5 |
| 959 | 3 | 2 | 113 | 48 | 3 | 2 | 6.1 | 1 | 1 | 16 | 5 |
| 960 | 3 | 2 | 114 | 68 | 13 | 3 | 2.6 | 3 | 0 | . | 5 |
| 961 | 3 | 2 | 115 | 67 | 19 | 3 | 2.7 | 3 | 1 | 10 | 5 |
| 962 | 3 | 2 | 116 | 50 | 20 | 3 | 2.3 | 2 | 0 | . | 5 |
| 963 | 3 | 2 | 117 | 49 | 26 | 3 | 2.0 | 3 | 0 | . | 5 |
| 964 | 3 | 2 | 118 | 47 | 37 | 2 | 8.3 | 1 | 1 | 15 | 5 |
| 965 | 3 | 2 | 119 | 56 | 38 | 3 | 1.5 | 3 | 0 | . | 5 |
| 966 | 3 | 2 | 120 | 48 | 44 | 3 | 1.7 | 4 | 0 | . | 5 |
| 967 | 3 | 2 | 121 | 59 | 47 | 3 | 1.3 | 3 | 0 | . | 5 |
| 968 | 3 | 2 | 122 | 49 | 50 | 2 | 4.7 | 2 | 0 | . | 5 |
| 969 | 3 | 2 | 123 | 52 | 59 | 2 | 6.3 | 1 | 1 | 19 | 5 |
| 970 | 3 | 2 | 124 | 56 | 65 | 2 | 6.3 | 1 | 0 | . | 5 |
| 971 | 3 | 2 | 125 | 42 | 73 | 3 | 2.6 | 3 | 0 | . | 5 |
| 972 | 3 | 2 | 126 | 44 | 79 | 2 | 5.2 | 1 | 1 | 22 | 5 |
| 973 | 3 | 2 | 127 | 50 | 89 | 2 | 5.4 | 2 | 1 | 16 | 5 |
| 974 | 3 | 2 | 128 | 44 | 89 | 3 | 3.2 | 2 | 1 | 17 | 5 |
| 975 | 3 | 2 | 129 | 48 | 98 | 2 | 4.8 | 1 | 0 | . | 5 |
| 976 | 3 | 2 | 130 | 41 | 2 | 2 | 6.4 | 1 | 0 | . | 5 |
| 977 | 3 | 2 | 131 | 33 | 8 | 3 | 2.1 | 3 | 1 | 9 | 5 |
| 978 | 3 | 2 | 132 | 22 | 1 | 2 | 8.6 | 1 | 0 | . | 5 |
| 979 | 3 | 2 | 133 | 27 | 18 | 2 | 7.7 | 1 | 1 | 18 | 5 |
| 980 | 3 | 2 | 134 | 35 | 22 | 2 | 7.6 | 1 | 0 | . | 5 |
| 981 | 3 | 2 | 135 | 32 | 39 | 2 | 6.4 | 1 | 0 | . | 5 |
| 982 | 3 | 2 | 136 | 24 | 39 | 2 | 7.2 | 1 | 0 | . | 5 |
| 983 | 3 | 2 | 137 | 35 | 52 | 2 | 6.7 | 1 | 0 | . | 5 |
| 984 | 3 | 2 | 138 | 37 | 59 | 3 | 3.7 | 3 | 0 | . | 5 |
| 985 | 3 | 2 | 139 | 28 | 57 | 2 | 6.0 | 1 | 0 | . | 5 |
| 986 | 3 | 2 | 140 | 29 | 61 | 2 | 4.6 | 2 | 1 | 19 | 5 |
| 987 | 3 | 2 | 141 | 35 | 67 | 2 | 6.7 | 1 | 1 | 22 | 5 |
| 988 | 3 | 2 | 142 | 28 | 69 | 2 | 4.3 | 2 | 1 | 18 | 5 |
| 989 | 3 | 2 | 143 | 20 | 71 | 2 | 5.4 | 3 | 0 | . | 5 |
| 990 | 3 | 2 | 144 | 29 | 82 | 2 | 6.5 | 2 | 0 | . | 5 |
| 991 | 3 | 2 | 145 | 34 | 85 | 2 | 6.0 | 1 | 1 | 25 | 5 |
| 992 | 3 | 2 | 146 | 38 | 89 | 2 | 6.3 | 2 | 0 | . | 5 |
| 993 | 3 | 2 | 147 | 26 | 85 | 3 | 4.0 | 4 | 0 | . | 5 |
| 994 | 3 | 2 | 148 | 15 | 8 | 2 | 5.3 | 2 | 1 | 17 | 5 |
| 995 | 3 | 2 | 149 | 5 | 2 | 3 | 2.0 | 3 | 0 | . | 5 |
| 996 | 3 | 2 | 150 | 4 | 9 | 2 | 4.9 | 1 | 0 | . | 5 |
| 997 | 3 | 2 | 151 | 19 | 19 | 2 | 8.0 | 1 | 0 | . | 5 |
| 998 | 3 | 2 | 152 | 14 | 18 | 2 | 5.5 | 2 | 1 | 18 | 5 |
| 999 | 3 | 2 | 153 | 5 | 16 | 3 | 2.6 | 3 | 0 | . | 5 |
| 1000 | 3 | 2 | 154 | 8 | 24 | 2 | 7.1 | 1 | 0 | . | 5 |

Listing of  Ident (1990) + Observed (1991-97)          21
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1001 | 3 | 2 | 155 | 17 | 28 | 2 | 5.0 | 2 | 0 | . | 5 |
| 1002 | 3 | 2 | 156 | 25 | 27 | 2 | 4.8 | 2 | 1 | 17 | 5 |
| 1003 | 3 | 2 | 157 | 8 | 33 | 2 | 5.0 | 2 | 0 | . | 5 |
| 1004 | 3 | 2 | 158 | 3 | 42 | 2 | 6.9 | 1 | 0 | . | 5 |
| 1005 | 3 | 2 | 159 | 16 | 41 | 2 | 4.7 | 2 | 1 | 19 | 5 |
| 1006 | 3 | 2 | 160 | 25 | 50 | 3 | 2.3 | 4 | 0 | . | 5 |
| 1007 | 3 | 2 | 161 | 19 | 52 | 2 | 6.4 | 1 | 0 | . | 5 |
| 1008 | 3 | 2 | 162 | 6 | 49 | 2 | 4.8 | 2 | 1 | 19 | 5 |
| 1009 | 3 | 2 | 163 | 0 | 54 | 3 | 2.3 | 3 | 0 | . | 5 |
| 1010 | 3 | 2 | 164 | 10 | 58 | 2 | 4.7 | 3 | 1 | 22 | 5 |
| 1011 | 3 | 2 | 165 | 7 | 65 | 2 | 5.8 | 1 | 0 | . | 5 |
| 1012 | 3 | 2 | 166 | 16 | 58 | 2 | 6.5 | 1 | 0 | . | 5 |
| 1013 | 3 | 2 | 167 | 20 | 67 | 2 | 5.3 | 1 | 0 | . | 5 |
| 1014 | 3 | 2 | 168 | 13 | 72 | 2 | 7.3 | 1 | 0 | . | 5 |
| 1015 | 3 | 2 | 169 | 7 | 85 | 2 | 5.9 | 2 | 0 | . | 5 |
| 1016 | 3 | 2 | 170 | 14 | 86 | 2 | 7.1 | 1 | 0 | . | 5 |
| 1017 | 3 | 2 | 171 | 19 | 84 | 3 | 3.9 | 4 | 0 | . | 5 |
| 1018 | 3 | 2 | 172 | 36 | 98 | 2 | 6.4 | 3 | 0 | . | 5 |
| 1019 | 3 | 2 | 173 | 20 | 94 | 2 | 6.9 | 1 | 1 | 23 | 5 |
| 1020 | 3 | 2 | 174 | 10 | 97 | 2 | 6.0 | 2 | 0 | . | 5 |
| 1021 | 3 | 2 | 175 | 2 | 98 | 2 | 7.3 | 1 | 0 | . | 5 |
| 1022 | 3 | 3 | 176 | . | . | 3 | 2.0 | 3 | 2 | . | 3 |
| 1023 | 3 | 3 | 177 | 6 | 13 | 2 | 4.8 | 1 | 1 | 12 | 3 |
| 1024 | 3 | 3 | 178 | . | . | 3 | 1.8 | 3 | 2 | . | 3 |
| 1025 | 3 | 3 | 179 | . | . | 3 | 2.0 | 4 | 2 | . | 3 |
| 1026 | 3 | 3 | 180 | 14 | 11 | 2 | 4.8 | 1 | 1 | 13 | 3 |
| 1027 | 3 | 3 | 181 | 21 | 8 | 3 | 2.7 | 3 | 0 | . | 3 |
| 1028 | 3 | 3 | 182 | 22 | 2 | 3 | 3.0 | 2 | 1 | 11 | 3 |
| 1029 | 3 | 3 | 183 | 28 | 1 | 3 | 3.2 | 3 | 0 | . | 3 |
| 1030 | 3 | 3 | 184 | 25 | 8 | 3 | 3.0 | 3 | 0 | . | 3 |
| 1031 | 3 | 3 | 185 | . | . | 3 | 3.7 | 4 | 2 | . | 3 |
| 1032 | 3 | 3 | 186 | 37 | 12 | 3 | 2.4 | 3 | 0 | . | 3 |
| 1033 | 3 | 3 | 187 | 42 | 6 | 3 | 3.3 | 3 | 0 | . | 3 |
| 1034 | 3 | 3 | 188 | 48 | 1 | 2 | 7.8 | 3 | 0 | . | 3 |
| 1035 | 3 | 3 | 189 | 41 | 15 | 3 | 4.5 | 2 | 0 | . | 3 |
| 1036 | 3 | 3 | 190 | 49 | 17 | 2 | 4.5 | 1 | 1 | 15 | 3 |
| 1037 | 3 | 3 | 191 | . | . | 3 | 2.3 | 3 | 2 | . | 3 |
| 1038 | 3 | 3 | 192 | . | . | 3 | 1.8 | 3 | 2 | . | 3 |
| 1039 | 3 | 3 | 193 | 68 | 0 | 2 | 5.4 | 2 | 0 | . | 3 |
| 1040 | 3 | 3 | 194 | 72 | 5 | 1 | 7.6 | 1 | 0 | . | 3 |
| 1041 | 3 | 3 | 195 | 67 | 25 | 3 | 3.2 | 3 | 0 | . | 3 |
| 1042 | 3 | 3 | 196 | . | . | 2 | 6.6 | 5 | 2 | . | 3 |
| 1043 | 3 | 3 | 197 | 90 | 9 | 3 | 4.0 | 2 | 0 | . | 3 |
| 1044 | 3 | 3 | 198 | 85 | 12 | 3 | 4.5 | 3 | 0 | . | 3 |
| 1045 | 3 | 3 | 199 | . | . | 3 | 1.3 | 4 | 2 | . | 3 |
| 1046 | 3 | 3 | 200 | 90 | 21 | 3 | 2.6 | 3 | 0 | . | 3 |
| 1047 | 3 | 3 | 201 | . | . | 3 | 2.2 | 3 | 2 | . | 3 |
| 1048 | 3 | 3 | 202 | 99 | 23 | 3 | 2.7 | 3 | 0 | . | 3 |
| 1049 | 3 | 3 | 203 | 7 | 27 | 3 | 3.9 | 1 | 1 | 13 | 3 |
| 1050 | 3 | 3 | 204 | 12 | 26 | 3 | 4.4 | 1 | 1 | 13 | 3 |

Listing of  Ident (1990) + Observed (1991-97)          22
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1051 | 3 | 3 | 205 | 12 | 19 | 3 | 2.4 | 3 | 0 | . | 3 |
| 1052 | 3 | 3 | 206 | 24 | 18 | 2 | 4.8 | 1 | 1 | 14 | 3 |
| 1053 | 3 | 3 | 207 | 27 | 22 | 2 | 4.2 | 2 | 1 | 17 | 3 |
| 1054 | 3 | 3 | 208 | 26 | 28 | 2 | 5.2 | 1 | 0 | . | 3 |
| 1055 | 3 | 3 | 209 | 35 | 24 | 2 | 5.8 | 3 | 0 | . | 3 |
| 1056 | 3 | 3 | 210 | 40 | 22 | 3 | 2.4 | 3 | 0 | . | 3 |
| 1057 | 3 | 3 | 211 | 43 | 29 | 3 | 4.7 | 1 | 1 | 13 | 3 |
| 1058 | 3 | 3 | 212 | . | . | 3 | 2.2 | 3 | 2 | . | 3 |
| 1059 | 3 | 3 | 213 | 46 | 36 | 2 | 4.7 | 3 | 0 | . | 3 |
| 1060 | 3 | 3 | 214 | 50 | 42 | 2 | 5.6 | 2 | 1 | 19 | 3 |
| 1061 | 3 | 3 | 215 | 58 | 44 | 1 | 8.0 | 3 | 0 | . | 3 |
| 1062 | 3 | 3 | 216 | 57 | 39 | 2 | 4.8 | 2 | 0 | . | 3 |
| 1063 | 3 | 3 | 217 | 67 | 31 | 3 | 2.7 | 3 | 0 | . | 3 |
| 1064 | 3 | 3 | 218 | . | . | 3 | 2.4 | 3 | 2 | . | 3 |
| 1065 | 3 | 3 | 219 | 66 | 44 | 2 | 5.7 | 2 | 1 | 19 | 3 |
| 1066 | 3 | 3 | 220 | 61 | 48 | 2 | 4.4 | 3 | 0 | . | 3 |
| 1067 | 3 | 3 | 221 | 80 | 44 | 3 | 4.1 | 3 | 0 | . | 3 |
| 1068 | 3 | 3 | 222 | 80 | 38 | 1 | 8.3 | 1 | 1 | 22 | 3 |
| 1069 | 3 | 3 | 223 | 87 | 40 | 2 | 6.8 | 2 | 1 | 26 | 3 |
| 1070 | 3 | 3 | 224 | 86 | 34 | 2 | 7.3 | 2 | 0 | . | 3 |
| 1071 | 3 | 3 | 225 | . | . | 3 | 1.6 | 3 | 2 | . | 3 |
| 1072 | 3 | 3 | 226 | . | . | 3 | 5.3 | 4 | 2 | . | 3 |
| 1073 | 3 | 3 | 227 | 93 | 40 | 2 | 7.2 | 2 | 1 | 21 | 3 |
| 1074 | 3 | 3 | 228 | 99 | 35 | 2 | 4.1 | 2 | 0 | . | 3 |
| 1075 | 3 | 3 | 229 | 98 | 45 | 2 | 7.4 | 1 | 0 | . | 3 |
| 1076 | 3 | 3 | 230 | . | . | 3 | 2.1 | 3 | 2 | . | 3 |
| 1077 | 3 | 3 | 231 | . | . | 3 | 2.4 | 3 | 2 | . | 3 |
| 1078 | 3 | 3 | 232 | 16 | 42 | 3 | 2.8 | 3 | 0 | . | 3 |
| 1079 | 3 | 3 | 233 | 16 | 36 | 3 | 2.9 | 3 | 0 | . | 3 |
| 1080 | 3 | 3 | 234 | 21 | 32 | 3 | 3.1 | 3 | 1 | 11 | 3 |
| 1081 | 3 | 3 | 235 | 21 | 43 | 3 | 3.6 | 3 | 0 | . | 3 |
| 1082 | 3 | 3 | 236 | 26 | 39 | 2 | 4.4 | 2 | 0 | . | 3 |
| 1083 | 3 | 3 | 237 | 33 | 43 | 2 | 4.6 | 2 | 1 | 16 | 3 |
| 1084 | 3 | 3 | 238 | 31 | 49 | 2 | 5.0 | 2 | 0 | . | 3 |
| 1085 | 3 | 3 | 239 | 42 | 44 | 3 | 4.2 | 3 | 0 | . | 3 |
| 1086 | 3 | 3 | 240 | 46 | 50 | 3 | 4.0 | 2 | 0 | . | 3 |
| 1087 | 3 | 3 | 241 | 52 | 56 | 3 | 2.5 | 3 | 0 | . | 3 |
| 1088 | 3 | 3 | 242 | 55 | 51 | 3 | 3.7 | 3 | 0 | . | 3 |
| 1089 | 3 | 3 | 243 | 57 | 58 | 3 | 3.5 | 3 | 0 | . | 3 |
| 1090 | 3 | 3 | 244 | 68 | 53 | 2 | 5.1 | 2 | 1 | 17 | 3 |
| 1091 | 3 | 3 | 245 | 84 | 53 | 2 | 7.4 | 1 | 0 | . | 3 |
| 1092 | 3 | 3 | 246 | 90 | 57 | 2 | 7.0 | 1 | 0 | . | 3 |
| 1093 | 3 | 3 | 247 | 96 | 60 | 2 | 6.2 | 1 | 1 | 20 | 3 |
| 1094 | 3 | 3 | 248 | 99 | 56 | 2 | 4.8 | 1 | 1 | 18 | 3 |
| 1095 | 3 | 3 | 249 | . | . | 3 | 2.4 | 3 | 2 | . | 3 |
| 1096 | 3 | 3 | 250 | 9 | 45 | 3 | 4.9 | 1 | 0 | . | 3 |
| 1097 | 3 | 3 | 251 | 11 | 53 | 3 | 3.9 | 1 | 0 | . | 3 |
| 1098 | 3 | 3 | 252 | . | . | 3 | 2.3 | 3 | 2 | . | 3 |
| 1099 | 3 | 3 | 253 | 17 | 59 | 2 | 4.4 | 2 | 1 | 12 | 3 |
| 1100 | 3 | 3 | 254 | 9 | 62 | 3 | 2.9 | 3 | 0 | . | 3 |

Listing of  Ident (1990) + Observed (1991-97)          23
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1101 | 3 | 3 | 255 | 7 | 63 | 3 | 2.8 | 3 | 0 | . | 3 |
| 1102 | 3 | 3 | 256 | . | . | 3 | 2.1 | 3 | 2 | . | 3 |
| 1103 | 3 | 3 | 257 | 22 | 50 | 3 | 3.5 | 1 | 0 | . | 3 |
| 1104 | 3 | 3 | 258 | . | . | 3 | 1.3 | 4 | 2 | . | 3 |
| 1105 | 3 | 3 | 259 | 31 | 60 | 3 | 3.3 | 2 | 1 | 12 | 3 |
| 1106 | 3 | 3 | 260 | 39 | 57 | 3 | 2.6 | 2 | 0 | . | 3 |
| 1107 | 3 | 3 | 261 | 40 | 52 | 3 | 4.6 | 1 | 1 | 14 | 3 |
| 1108 | 3 | 3 | 262 | 48 | 55 | 3 | 2.7 | 2 | 0 | . | 3 |
| 1109 | 3 | 3 | 263 | 66 | 61 | 2 | 6.5 | 1 | 1 | 18 | 3 |
| 1110 | 3 | 3 | 264 | 70 | 59 | 3 | 3.1 | 3 | 0 | . | 3 |
| 1111 | 3 | 3 | 265 | 76 | 62 | 2 | 5.5 | 1 | 0 | . | 3 |
| 1112 | 3 | 3 | 266 | 82 | 63 | 2 | 7.8 | 1 | 0 | . | 3 |
| 1113 | 3 | 4 | 267 | 8 | 1 | 3 | 3.9 | 3 | 0 | . | 4 |
| 1114 | 3 | 4 | 268 | 5 | 9 | 2 | 5.5 | 2 | 0 | . | 4 |
| 1115 | 3 | 4 | 269 | 5 | 18 | 2 | 5.4 | 1 | 1 | 20 | 4 |
| 1116 | 3 | 4 | 270 | 12 | 8 | 2 | 7.5 | 1 | 0 | . | 4 |
| 1117 | 3 | 4 | 271 | 21 | 5 | 2 | 4.6 | 1 | 0 | . | 4 |
| 1118 | 3 | 4 | 272 | 25 | 11 | 2 | 4.7 | 2 | 0 | . | 4 |
| 1119 | 3 | 4 | 273 | 29 | 20 | 2 | 6.7 | 1 | 1 | 21 | 4 |
| 1120 | 3 | 4 | 274 | 32 | 5 | 2 | 7.8 | 1 | 0 | . | 4 |
| 1121 | 3 | 4 | 275 | . | . | 3 | 6.5 | 4 | 2 | . | 4 |
| 1122 | 3 | 4 | 276 | 42 | 15 | 2 | 7.6 | 1 | 0 | . | 4 |
| 1123 | 3 | 4 | 277 | 39 | 20 | 3 | 2.5 | 3 | 0 | . | 4 |
| 1124 | 3 | 4 | 278 | 49 | 18 | 3 | 1.8 | 3 | 0 | . | 4 |
| 1125 | 3 | 4 | 279 | 63 | 16 | 3 | 1.9 | 3 | 0 | . | 4 |
| 1126 | 3 | 4 | 280 | 61 | 8 | 3 | 5.1 | 1 | 1 | 13 | 4 |
| 1127 | 3 | 4 | 281 | 62 | 3 | 3 | 2.9 | 3 | 0 | . | 4 |
| 1128 | 3 | 4 | 282 | 69 | 6 | 3 | 4.3 | 2 | 0 | . | 4 |
| 1129 | 3 | 4 | 283 | 70 | 17 | 2 | 5.5 | 1 | 0 | . | 4 |
| 1130 | 3 | 4 | 284 | 79 | 21 | 2 | 8.8 | 1 | 0 | . | 4 |
| 1131 | 3 | 4 | 285 | 77 | 17 | 2 | 7.3 | 2 | 0 | . | 4 |
| 1132 | 3 | 4 | 286 | 77 | 3 | 3 | 2.4 | 3 | 0 | . | 4 |
| 1133 | 3 | 4 | 287 | 84 | 2 | 3 | 4.7 | 1 | 0 | . | 4 |
| 1134 | 3 | 4 | 288 | 87 | 17 | 3 | 4.3 | 3 | 0 | . | 4 |
| 1135 | 3 | 4 | 289 | 92 | 24 | 3 | 3.9 | 1 | 0 | . | 4 |
| 1136 | 3 | 4 | 290 | 98 | 8 | 3 | 2.9 | 1 | 0 | . | 4 |
| 1137 | 3 | 4 | 291 | 2 | 30 | 2 | 5.3 | 1 | 0 | . | 4 |
| 1138 | 3 | 4 | 292 | 14 | 23 | 2 | 6.9 | 1 | 1 | 19 | 4 |
| 1139 | 3 | 4 | 293 | 21 | 21 | 2 | 6.0 | 2 | 0 | . | 4 |
| 1140 | 3 | 4 | 294 | 24 | 25 | 3 | 4.0 | 3 | 0 | . | 4 |
| 1141 | 3 | 4 | 295 | 19 | 35 | 3 | 2.8 | 2 | 0 | . | 4 |
| 1142 | 3 | 4 | 296 | 30 | 38 | 2 | 4.4 | 2 | 0 | . | 4 |
| 1143 | 3 | 4 | 297 | 33 | 26 | 3 | 4.0 | 3 | 0 | . | 4 |
| 1144 | 3 | 4 | 298 | 41 | 25 | 3 | 2.8 | 3 | 0 | . | 4 |
| 1145 | 3 | 4 | 299 | 42 | 32 | 3 | 3.9 | 3 | 0 | . | 4 |
| 1146 | 3 | 4 | 300 | 53 | 25 | 3 | 3.3 | 1 | 1 | 12 | 4 |
| 1147 | 3 | 4 | 301 | 58 | 22 | 3 | 2.1 | 3 | 0 | . | 4 |
| 1148 | 3 | 4 | 302 | 68 | 27 | 3 | 1.9 | 3 | 0 | . | 4 |
| 1149 | 3 | 4 | 303 | 74 | 35 | 2 | 4.7 | 1 | 0 | . | 4 |
| 1150 | 3 | 4 | 304 | 86 | 34 | 2 | 5.1 | 1 | 0 | . | 4 |

Listing of  Ident (1990) + Observed (1991-97)          24
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1151 | 3 | 4 | 305 | . | . | 2 | 4.5 | 4 | 2 | . | 4 |
| 1152 | 3 | 4 | 306 | 84 | 45 | 2 | 5.3 | 3 | 0 | . | 4 |
| 1153 | 3 | 4 | 307 | 93 | 45 | 2 | 7.7 | 1 | 1 | 20 | 4 |
| 1154 | 3 | 4 | 308 | 93 | 39 | 3 | 2.7 | 3 | 0 | . | 4 |
| 1155 | 3 | 4 | 309 | 98 | 28 | 2 | 4.2 | 2 | 0 | . | 4 |
| 1156 | 3 | 4 | 310 | 9 | 38 | 3 | 2.9 | 2 | 0 | . | 4 |
| 1157 | 3 | 4 | 311 | 5 | 51 | 2 | 8.1 | 2 | 0 | . | 4 |
| 1158 | 3 | 4 | 312 | 15 | 43 | 3 | 2.5 | 3 | 0 | . | 4 |
| 1159 | 3 | 4 | 313 | 23 | 46 | 2 | 6.4 | 1 | 1 | 16 | 4 |
| 1160 | 3 | 4 | 314 | 37 | 47 | 2 | 8.2 | 1 | 1 | 22 | 4 |
| 1161 | 3 | 4 | 315 | 37 | 38 | 3 | 2.8 | 3 | 0 | . | 4 |
| 1162 | 3 | 4 | 316 | 47 | 37 | 3 | 4.5 | 1 | 0 | . | 4 |
| 1163 | 3 | 4 | 317 | 52 | 34 | 3 | 4.1 | 2 | 0 | . | 4 |
| 1164 | 3 | 4 | 318 | 56 | 43 | 2 | 6.9 | 1 | 0 | . | 4 |
| 1165 | 3 | 4 | 319 | 54 | 50 | 2 | 5.7 | 2 | 0 | . | 4 |
| 1166 | 3 | 4 | 320 | 68 | 42 | 2 | 5.3 | 3 | 0 | . | 4 |
| 1167 | 3 | 4 | 321 | 65 | 48 | 2 | 5.0 | 1 | 1 | 17 | 4 |
| 1168 | 3 | 4 | 322 | 70 | 52 | 2 | 4.5 | 2 | 0 | . | 4 |
| 1169 | 3 | 4 | 323 | 76 | 57 | 3 | 4.2 | 2 | 0 | . | 4 |
| 1170 | 3 | 4 | 324 | 81 | 52 | 3 | 2.4 | 3 | 0 | . | 4 |
| 1171 | 3 | 4 | 325 | 85 | 57 | 2 | 6.6 | 1 | 1 | 20 | 4 |
| 1172 | 3 | 4 | 326 | 92 | 58 | 2 | 5.0 | 3 | 0 | . | 4 |
| 1173 | 3 | 4 | 327 | 99 | 55 | 2 | 4.7 | 1 | 0 | . | 4 |
| 1174 | 3 | 4 | 328 | 98 | 60 | 2 | 4.3 | 3 | 0 | . | 4 |
| 1175 | 3 | 4 | 329 | 1 | 64 | 2 | 7.6 | 1 | 1 | 18 | 4 |
| 1176 | 3 | 4 | 330 | 19 | 59 | 2 | 6.2 | 1 | 0 | . | 4 |
| 1177 | 3 | 4 | 331 | 25 | 55 | 3 | 2.3 | 3 | 0 | . | 4 |
| 1178 | 3 | 4 | 332 | 24 | 61 | 3 | 1.7 | 3 | 0 | . | 4 |
| 1179 | 3 | 4 | 333 | 32 | 55 | 2 | 4.8 | 1 | 0 | . | 4 |
| 1180 | 3 | 4 | 334 | 35 | 62 | 3 | 3.5 | 1 | 0 | . | 4 |
| 1181 | 3 | 4 | 335 | 48 | 63 | 3 | 3.9 | 2 | 0 | . | 4 |
| 1182 | 3 | 4 | 336 | 56 | 64 | 3 | 5.1 | 2 | 0 | . | 4 |
| 1183 | 3 | 4 | 337 | 63 | 58 | 2 | 10.1 | 1 | 0 | . | 4 |
| 1184 | 3 | 4 | 338 | 61 | 66 | 2 | 5.1 | 3 | 0 | . | 4 |
| 1185 | 3 | 4 | 339 | 73 | 61 | 2 | 5.0 | 1 | 0 | . | 4 |
| 1186 | 3 | 4 | 340 | 90 | 63 | 3 | 2.8 | 3 | 0 | . | 4 |
| 1187 | 3 | 4 | 341 | 99 | 65 | 2 | 6.1 | 1 | 0 | . | 4 |
| 1188 | 3 | 5 | 342 | 63 | 2 | 2 | 5.6 | 2 | 0 | . | 1 |
| 1189 | 3 | 5 | 343 | 55 | 5 | 2 | 5.5 | 4 | 0 | . | 1 |
| 1190 | 3 | 5 | 344 | 43 | 4 | 2 | 5.0 | 3 | 0 | . | 1 |
| 1191 | 3 | 5 | 345 | 47 | 12 | 1 | 8.2 | 2 | 0 | . | 1 |
| 1192 | 3 | 5 | 346 | 54 | 15 | 2 | 3.9 | 3 | 0 | . | 1 |
| 1193 | 3 | 5 | 347 | 60 | 15 | 2 | 4.2 | 3 | 0 | . | 1 |
| 1194 | 3 | 5 | 348 | 63 | 22 | 2 | 5.3 | 1 | 0 | . | 1 |
| 1195 | 3 | 5 | 349 | 61 | 35 | 3 | 2.9 | 2 | 0 | . | 1 |
| 1196 | 3 | 5 | 350 | 51 | 41 | 2 | 5.1 | 3 | 0 | . | 1 |
| 1197 | 3 | 5 | 351 | 54 | 44 | 3 | 2.7 | 3 | 0 | . | 1 |
| 1198 | 3 | 5 | 352 | 63 | 39 | 3 | 2.1 | 3 | 0 | . | 1 |
| 1199 | 3 | 5 | 353 | 66 | 41 | 3 | 2.0 | 2 | 0 | . | 1 |
| 1200 | 3 | 5 | 354 | 60 | 47 | 3 | 1.3 | 2 | 0 | . | 1 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 1201 | 3 | 5 | 355 | 64 | 49 | 3 | 3.6 | 1 | 0 | . | 1 |
| 1202 | 3 | 5 | 356 | 61 | 54 | 3 | 2.5 | 2 | 0 | . | 1 |
| 1203 | 3 | 5 | 357 | 54 | 56 | 2 | 4.7 | 1 | 0 | . | 1 |
| 1204 | 3 | 5 | 358 | 57 | 64 | 3 | 1.9 | 3 | 0 | . | 1 |
| 1205 | 3 | 5 | 359 | 62 | 62 | 3 | 1.0 | 3 | 0 | . | 1 |
| 1206 | 3 | 5 | 360 | 65 | 64 | 3 | 2.4 | 2 | 0 | . | 1 |
| 1207 | 3 | 5 | 361 | 65 | 68 | 3 | 2.0 | 3 | 0 | . | 1 |
| 1208 | 3 | 5 | 362 | 60 | 68 | 2 | 4.0 | 1 | 0 | . | 1 |
| 1209 | 3 | 5 | 363 | 63 | 79 | 2 | 5.0 | 1 | 0 | . | 1 |
| 1210 | 3 | 5 | 364 | 53 | 78 | 2 | 5.9 | 1 | 0 | . | 1 |
| 1211 | 3 | 5 | 365 | 62 | 82 | 2 | 4.3 | 2 | 0 | . | 1 |
| 1212 | 3 | 5 | 366 | 52 | 84 | 2 | 4.7 | 3 | 0 | . | 1 |
| 1213 | 3 | 5 | 367 | 59 | 90 | 2 | 6.1 | 3 | 0 | . | 1 |
| 1214 | 3 | 5 | 368 | 59 | 95 | 2 | 6.2 | 1 | 0 | . | 1 |
| 1215 | 3 | 5 | 369 | 50 | 94 | 3 | 1.6 | 4 | 0 | . | 1 |
| 1216 | 3 | 5 | 370 | 44 | 95 | 2 | 6.3 | 1 | 0 | . | 1 |
| 1217 | 3 | 5 | 371 | 31 | 0 | 2 | 4.2 | 3 | 0 | . | 1 |
| 1218 | 3 | 5 | 372 | 20 | 4 | 2 | 4.3 | 3 | 0 | . | 1 |
| 1219 | 3 | 5 | 373 | 24 | 17 | 3 | 3.8 | 2 | 0 | . | 1 |
| 1220 | 3 | 5 | 374 | 22 | 24 | 2 | 4.8 | 1 | 0 | . | 1 |
| 1221 | 3 | 5 | 375 | 29 | 31 | 2 | 5.6 | 2 | 0 | . | 1 |
| 1222 | 3 | 5 | 376 | 38 | 35 | 2 | 5.6 | 1 | 0 | . | 1 |
| 1223 | 3 | 5 | 377 | 43 | 31 | 3 | 1.2 | 3 | 0 | . | 1 |
| 1224 | 3 | 5 | 378 | 43 | 36 | 3 | 2.4 | 3 | 0 | . | 1 |
| 1225 | 3 | 5 | 379 | 32 | 39 | 3 | 3.8 | 3 | 0 | . | 1 |
| 1226 | 3 | 5 | 380 | 35 | 44 | 2 | 4.6 | 2 | 0 | . | 1 |
| 1227 | 3 | 5 | 381 | 53 | 46 | 3 | 1.7 | 3 | 0 | . | 1 |
| 1228 | 3 | 5 | 382 | 39 | 50 | 3 | 1.7 | 3 | 0 | . | 1 |
| 1229 | 3 | 5 | 383 | 47 | 56 | 2 | 5.5 | 1 | 0 | . | 1 |
| 1230 | 3 | 5 | 384 | 35 | 65 | 2 | 5.1 | 1 | 0 | . | 1 |
| 1231 | 3 | 5 | 385 | 42 | 67 | 2 | 5.0 | 2 | 0 | . | 1 |
| 1232 | 3 | 5 | 386 | 49 | 63 | 3 | 1.7 | 4 | 0 | . | 1 |
| 1233 | 3 | 5 | 387 | 48 | 66 | 3 | 3.8 | 2 | 0 | . | 1 |
| 1234 | 3 | 5 | 388 | 53 | 71 | 3 | 1.6 | 3 | 0 | . | 1 |
| 1235 | 3 | 5 | 389 | 47 | 82 | 2 | 6.2 | 1 | 0 | . | 1 |
| 1236 | 3 | 5 | 390 | 32 | 74 | 2 | 4.4 | 1 | 0 | . | 1 |
| 1237 | 3 | 5 | 391 | 31 | 83 | 2 | 7.7 | 1 | 0 | . | 1 |
| 1238 | 3 | 5 | 392 | 29 | 81 | 3 | 3.8 | 3 | 0 | . | 1 |
| 1239 | 3 | 5 | 393 | 34 | 92 | 3 | 2.5 | 3 | 0 | . | 1 |
| 1240 | 3 | 5 | 394 | 2 | 96 | 3 | 2.8 | 2 | 0 | . | 1 |
| 1241 | 3 | 5 | 395 | 20 | 98 | 2 | 5.7 | 1 | 0 | . | 1 |
| 1242 | 3 | 5 | 396 | 6 | 2 | 2 | 5.9 | 4 | 0 | . | 1 |
| 1243 | 3 | 5 | 397 | 2 | 9 | 3 | 2.7 | 3 | 0 | . | 1 |
| 1244 | 3 | 5 | 398 | 8 | 14 | 3 | 3.1 | 2 | 0 | . | 1 |
| 1245 | 3 | 5 | 399 | 14 | 10 | 2 | 3.9 | 2 | 0 | . | 1 |
| 1246 | 3 | 5 | 400 | 17 | 14 | 3 | 2.7 | 3 | 0 | . | 1 |
| 1247 | 3 | 5 | 401 | 18 | 21 | 2 | 3.7 | 3 | 0 | . | 1 |
| 1248 | 3 | 5 | 402 | 7 | 20 | 2 | 6.2 | 3 | 0 | . | 1 |
| 1249 | 3 | 5 | 403 | 2 | 28 | 3 | 3.6 | 3 | 0 | . | 1 |
| 1250 | 3 | 5 | 404 | 3 | 33 | 2 | 4.8 | 2 | 0 | . | 1 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 1251 | 3 | 5 | 405 | 10 | 27 | 3 | 1.9 | 3 | 0 | . | 1 |
| 1252 | 3 | 5 | 406 | 13 | 31 | 3 | 3.1 | 2 | 0 | . | 1 |
| 1253 | 3 | 5 | 407 | 20 | 30 | 3 | 1.9 | 3 | 0 | . | 1 |
| 1254 | 3 | 5 | 408 | 22 | 37 | 2 | 6.3 | 1 | 0 | . | 1 |
| 1255 | 3 | 5 | 409 | 14 | 39 | 3 | 1.3 | 4 | 0 | . | 1 |
| 1256 | 3 | 5 | 410 | 9 | 40 | 3 | 2.1 | 3 | 0 | . | 1 |
| 1257 | 3 | 5 | 411 | 0 | 45 | 2 | 6.1 | 1 | 0 | . | 1 |
| 1258 | 3 | 5 | 412 | 11 | 46 | 3 | 3.8 | 2 | 0 | . | 1 |
| 1259 | 3 | 5 | 413 | 22 | 44 | 3 | 3.5 | 3 | 0 | . | 1 |
| 1260 | 3 | 5 | 414 | 25 | 53 | 3 | 3.9 | 1 | 0 | . | 1 |
| 1261 | 3 | 5 | 415 | 21 | 53 | 2 | 4.3 | 1 | 0 | . | 1 |
| 1262 | 3 | 5 | 416 | 8 | 51 | 3 | 3.7 | 2 | 0 | . | 1 |
| 1263 | 3 | 5 | 417 | 8 | 59 | 3 | 2.3 | 4 | 0 | . | 1 |
| 1264 | 3 | 5 | 418 | 23 | 61 | 3 | 3.5 | 3 | 0 | . | 1 |
| 1265 | 3 | 5 | 419 | 22 | 68 | 3 | 3.4 | 2 | 0 | . | 1 |
| 1266 | 3 | 5 | 420 | 17 | 66 | 2 | 6.3 | 2 | 0 | . | 1 |
| 1267 | 3 | 5 | 421 | 10 | 64 | 2 | 6.8 | 1 | 0 | . | 1 |
| 1268 | 3 | 5 | 422 | 6 | 69 | 3 | 3.1 | 3 | 0 | . | 1 |
| 1269 | 3 | 5 | 423 | 0 | 69 | 3 | 3.5 | 2 | 0 | . | 1 |
| 1270 | 3 | 5 | 424 | 1 | 79 | 3 | 2.8 | 2 | 0 | . | 1 |
| 1271 | 3 | 5 | 425 | 15 | 75 | 2 | 4.5 | 3 | 0 | . | 1 |
| 1272 | 3 | 5 | 426 | 19 | 80 | 3 | 2.1 | 3 | 0 | . | 1 |
| 1273 | 3 | 5 | 427 | 13 | 82 | 3 | 2.3 | 3 | 0 | . | 1 |
| 1274 | 3 | 5 | 428 | 6 | 85 | 3 | 2.1 | 2 | 0 | . | 1 |
| 1275 | 3 | 5 | 429 | 0 | 86 | 3 | 2.5 | 2 | 0 | . | 1 |
| 1276 | 3 | 5 | 430 | 3 | 94 | 3 | 5.5 | 1 | 0 | . | 1 |
| 1277 | 3 | 5 | 431 | 9 | 95 | 3 | 3.5 | 2 | 0 | . | 1 |
| 1278 | 3 | 5 | 432 | 15 | 90 | 3 | 2.9 | 4 | 0 | . | 1 |
| 1279 | 3 | 5 | 433 | 19 | 87 | 2 | 4.8 | 1 | 0 | . | 1 |
| 1280 | 4 | 1 | 434 | 62 | 5 | 2 | 6.0 | 1 | 1 | 16 | 5 |
| 1281 | 4 | 1 | 435 | 55 | 1 | 2 | 4.1 | 1 | 0 | . | 5 |
| 1282 | 4 | 1 | 436 | 49 | 3 | 2 | 4.3 | 1 | 1 | 15 | 5 |
| 1283 | 4 | 1 | 437 | 54 | 6 | 2 | 3.7 | 2 | 0 | . | 5 |
| 1284 | 4 | 1 | 438 | 46 | 10 | 2 | 3.7 | 2 | 1 | 16 | 5 |
| 1285 | 4 | 1 | 439 | 46 | 12 | 2 | 3.8 | 2 | 0 | . | 5 |
| 1286 | 4 | 1 | 440 | 55 | 13 | 2 | 3.8 | 2 | 1 | 15 | 5 |
| 1287 | 4 | 1 | 441 | 63 | 17 | 2 | 4.0 | 1 | 0 | . | 5 |
| 1288 | 4 | 1 | 442 | 65 | 18 | 2 | 4.1 | 2 | 1 | 15 | 5 |
| 1289 | 4 | 1 | 443 | 51 | 18 | 2 | 4.7 | 3 | 0 | . | 5 |
| 1290 | 4 | 1 | 444 | 49 | 18 | 2 | 4.8 | 2 | 1 | 16 | 5 |
| 1291 | 4 | 1 | 445 | 64 | 25 | 2 | 4.1 | 2 | 0 | . | 5 |
| 1292 | 4 | 1 | 446 | 61 | 28 | 2 | 4.9 | 1 | 0 | . | 5 |
| 1293 | 4 | 1 | 447 | 59 | 32 | 2 | 4.4 | 1 | 1 | 14 | 5 |
| 1294 | 4 | 1 | 448 | 53 | 33 | 2 | 2.7 | 2 | 0 | . | 5 |
| 1295 | 4 | 1 | 449 | 45 | 36 | 2 | 3.7 | 2 | 0 | . | 5 |
| 1296 | 4 | 1 | 450 | 44 | 38 | 2 | 4.4 | 2 | 1 | 17 | 5 |
| 1297 | 4 | 1 | 451 | 49 | 40 | 2 | 5.6 | 1 | 1 | 16 | 5 |
| 1298 | 4 | 1 | 452 | 63 | 37 | 2 | 3.2 | 1 | 0 | . | 5 |
| 1299 | 4 | 1 | 453 | 62 | 48 | 2 | 5.1 | 1 | 0 | . | 5 |
| 1300 | 4 | 1 | 454 | 46 | 44 | 3 | 2.3 | 3 | 0 | . | 5 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 1301 | 4 | 1 | 455 | 39 | 49 | 2 | 3.8 | 2 | 1 | 16 | 5 |
| 1302 | 4 | 1 | 456 | 44 | 49 | 2 | 4.9 | 1 | 1 | 17 | 5 |
| 1303 | 4 | 1 | 457 | 43 | 53 | 2 | 3.7 | 3 | 0 | . | 5 |
| 1304 | 4 | 1 | 458 | 39 | 57 | 2 | 3.9 | 2 | 0 | . | 5 |
| 1305 | 4 | 1 | 459 | 48 | 55 | 2 | 4.9 | 1 | 0 | . | 5 |
| 1306 | 4 | 1 | 460 | 56 | 70 | 2 | 4.5 | 1 | 1 | 15 | 5 |
| 1307 | 4 | 1 | 461 | 47 | 67 | 2 | 4.1 | 2 | 0 | . | 5 |
| 1308 | 4 | 1 | 462 | 36 | 65 | 2 | 3.1 | 2 | 1 | 13 | 5 |
| 1309 | 4 | 1 | 463 | 32 | 61 | 3 | 2.7 | 2 | 0 | . | 5 |
| 1310 | 4 | 1 | 464 | 32 | 65 | 3 | 2.2 | 2 | 0 | . | 5 |
| 1311 | 4 | 1 | 465 | 30 | 70 | 2 | 3.8 | 1 | 0 | . | 5 |
| 1312 | 4 | 1 | 466 | 30 | 74 | 2 | 4.3 | 1 | 0 | . | 5 |
| 1313 | 4 | 1 | 467 | 43 | 75 | 2 | 4.8 | 1 | 0 | . | 5 |
| 1314 | 4 | 1 | 468 | 41 | 80 | 2 | 5.8 | 1 | 0 | . | 5 |
| 1315 | 4 | 1 | 469 | 42 | 82 | 2 | 4.9 | 2 | 0 | . | 5 |
| 1316 | 4 | 1 | 470 | 60 | 90 | 2 | 6.0 | 1 | 1 | 11 | 5 |
| 1317 | 4 | 1 | 471 | 40 | 6 | 2 | 5.7 | 1 | 1 | 17 | 5 |
| 1318 | 4 | 1 | 472 | 36 | 7 | 3 | 3.1 | 1 | 0 | . | 5 |
| 1319 | 4 | 1 | 473 | 39 | 9 | 3 | 3.5 | 2 | 0 | . | 5 |
| 1320 | 4 | 1 | 474 | 43 | 10 | 3 | 3.0 | 2 | 0 | . | 5 |
| 1321 | 4 | 1 | 475 | 42 | 16 | 2 | 3.7 | 2 | 1 | 17 | 5 |
| 1322 | 4 | 1 | 476 | 41 | 18 | 2 | 4.7 | 1 | 1 | 18 | 5 |
| 1323 | 4 | 1 | 477 | 31 | 25 | 2 | 3.2 | 1 | 1 | 13 | 5 |
| 1324 | 4 | 1 | 478 | 34 | 26 | 2 | 4.3 | 1 | 0 | . | 5 |
| 1325 | 4 | 1 | 479 | 39 | 24 | 2 | 3.5 | 1 | 0 | . | 5 |
| 1326 | 4 | 1 | 480 | 37 | 30 | 2 | 4.0 | 2 | 0 | . | 5 |
| 1327 | 4 | 1 | 481 | 35 | 38 | 2 | 4.7 | 1 | 0 | . | 5 |
| 1328 | 4 | 1 | 482 | 33 | 41 | 3 | 3.0 | 1 | 0 | . | 5 |
| 1329 | 4 | 1 | 483 | 32 | 45 | 2 | 3.5 | 2 | 1 | 19 | 5 |
| 1330 | 4 | 1 | 484 | 32 | 46 | 2 | 4.9 | 1 | 1 | 19 | 5 |
| 1331 | 4 | 1 | 485 | 36 | 46 | 3 | 2.9 | 3 | 0 | . | 5 |
| 1332 | 4 | 1 | 486 | 33 | 51 | 2 | 5.1 | 2 | 0 | . | 5 |
| 1333 | 4 | 1 | 487 | 29 | 53 | 2 | 5.9 | 2 | 0 | . | 5 |
| 1334 | 4 | 1 | 488 | 27 | 66 | 2 | 3.7 | 3 | 0 | . | 5 |
| 1335 | 4 | 1 | 489 | 25 | 67 | 2 | 4.9 | 1 | 0 | . | 5 |
| 1336 | 4 | 1 | 490 | 19 | 62 | 3 | 4.4 | 1 | 1 | 13 | 5 |
| 1337 | 4 | 1 | 491 | 22 | 69 | 2 | 4.7 | 1 | 0 | . | 5 |
| 1338 | 4 | 1 | 492 | 22 | 74 | 2 | 5.3 | 1 | 1 | 18 | 5 |
| 1339 | 4 | 1 | 493 | 23 | 74 | 2 | 3.5 | 2 | 0 | . | 5 |
| 1340 | 4 | 1 | 494 | 24 | 77 | 2 | 3.7 | 1 | 0 | . | 5 |
| 1341 | 4 | 1 | 495 | 26 | 79 | 3 | 2.4 | 3 | 0 | . | 5 |
| 1342 | 4 | 1 | 496 | 23 | 81 | 2 | 4.0 | 1 | 0 | . | 5 |
| 1343 | 4 | 1 | 497 | 23 | 84 | 3 | 3.2 | 3 | 1 | 14 | 5 |
| 1344 | 4 | 1 | 498 | 23 | 83 | 2 | 3.5 | 2 | 1 | 14 | 5 |
| 1345 | 4 | 1 | 499 | 19 | 89 | 2 | 3.8 | 1 | 0 | . | 5 |
| 1346 | 4 | 1 | 500 | 21 | 90 | 2 | 4.7 | 1 | 1 | 15 | 5 |
| 1347 | 4 | 1 | 501 | 30 | 97 | 2 | 5.0 | 1 | 1 | 12 | 5 |
| 1348 | 4 | 1 | 502 | 32 | 8 | 3 | 1.6 | 2 | 0 | . | 5 |
| 1349 | 4 | 1 | 503 | . | . | 3 | 4.2 | 5 | 2 | . | 5 |
| 1350 | 4 | 1 | 504 | 19 | 8 | 3 | 1.8 | 2 | 0 | . | 5 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 1351 | 4 | 1 | 505 | 14 | 7 | 3 | 2.3 | 2 | 0 | . | 5 |
| 1352 | 4 | 1 | 506 | 18 | 17 | 3 | 3.4 | 1 | 0 | . | 5 |
| 1353 | 4 | 1 | 507 | 23 | 26 | 3 | 2.3 | 1 | 1 | 8 | 5 |
| 1354 | 4 | 1 | 508 | 13 | 28 | 3 | 1.5 | 2 | 0 | . | 5 |
| 1355 | 4 | 1 | 509 | 20 | 40 | 3 | 1.8 | 2 | 1 | 8 | 5 |
| 1356 | 4 | 1 | 510 | 17 | 49 | 2 | 4.0 | 3 | 1 | 14 | 5 |
| 1357 | 4 | 1 | 511 | 18 | 53 | 2 | 6.1 | 1 | 1 | 15 | 5 |
| 1358 | 4 | 1 | 512 | 9 | 63 | 3 | 2.8 | 1 | 0 | . | 5 |
| 1359 | 4 | 1 | 513 | 12 | 72 | 2 | 4.5 | 1 | 0 | . | 5 |
| 1360 | 4 | 1 | 514 | 17 | 73 | 2 | 4.0 | 1 | 0 | . | 5 |
| 1361 | 4 | 1 | 515 | 19 | 74 | 3 | 2.7 | 3 | 1 | 12 | 5 |
| 1362 | 4 | 1 | 516 | 7 | 95 | 3 | 2.0 | 2 | 1 | 9 | 5 |
| 1363 | 4 | 1 | 517 | 10 | 97 | 3 | 3.7 | 1 | 0 | . | 5 |
| 1364 | 4 | 1 | 518 | 9 | 99 | 3 | 2.5 | 2 | 0 | . | 5 |
| 1365 | 4 | 1 | 519 | . | . | 3 | 5.6 | 5 | 2 | . | 5 |
| 1366 | 4 | 1 | 520 | . | . | 2 | 5.1 | 5 | 2 | . | 5 |
| 1367 | 4 | 1 | 521 | . | . | 3 | 2.2 | 5 | 2 | . | 5 |
| 1368 | 4 | 1 | 522 | 7 | 16 | 3 | 2.3 | 1 | 0 | . | 5 |
| 1369 | 4 | 1 | 523 | 0 | 23 | 3 | 4.0 | 1 | 0 | . | 5 |
| 1370 | 4 | 1 | 524 | 2 | 34 | 2 | 2.8 | 1 | 0 | . | 5 |
| 1371 | 4 | 1 | 525 | 7 | 35 | 2 | 3.5 | 1 | 1 | 15 | 5 |
| 1372 | 4 | 1 | 526 | 12 | 35 | 2 | 3.9 | 1 | 1 | 12 | 5 |
| 1373 | 4 | 1 | 527 | 12 | 38 | 2 | 3.5 | 2 | 1 | 14 | 5 |
| 1374 | 4 | 1 | 528 | 11 | 42 | 2 | 4.9 | 1 | 1 | 15 | 5 |
| 1375 | 4 | 1 | 529 | 6 | 41 | 2 | 3.4 | 2 | 1 | 15 | 5 |
| 1376 | 4 | 1 | 530 | 1 | 38 | 3 | 2.8 | 2 | 0 | . | 5 |
| 1377 | 4 | 1 | 531 | 5 | 47 | 3 | 3.1 | 1 | 0 | . | 5 |
| 1378 | 4 | 1 | 532 | 8 | 48 | 3 | 2.4 | 1 | 0 | . | 5 |
| 1379 | 4 | 1 | 533 | 10 | 58 | 3 | 2.6 | 3 | 1 | 8 | 5 |
| 1380 | 4 | 1 | 534 | 3 | 57 | 3 | 4.1 | 2 | 0 | . | 5 |
| 1381 | 4 | 1 | 535 | 3 | 78 | 2 | 4.7 | 1 | 1 | 14 | 5 |
| 1382 | 4 | 1 | 536 | 5 | 84 | 2 | 4.7 | 1 | 1 | 15 | 5 |
| 1383 | 4 | 2 | 537 | 66 | 6 | 2 | 4.4 | 1 | 1 | 14 | 3 |
| 1384 | 4 | 2 | 538 | . | . | 3 | 3.4 | 3 | 2 | . | 3 |
| 1385 | 4 | 2 | 539 | 44 | 2 | 3 | 3.1 | 1 | 0 | . | 3 |
| 1386 | 4 | 2 | 540 | 65 | 20 | 2 | 5.0 | 1 | 1 | 13 | 3 |
| 1387 | 4 | 2 | 541 | . | . | 3 | 3.0 | 3 | 2 | . | 3 |
| 1388 | 4 | 2 | 542 | . | . | 3 | 1.5 | 3 | 2 | . | 3 |
| 1389 | 4 | 2 | 543 | 50 | 19 | 3 | 2.1 | 2 | 0 | . | 3 |
| 1390 | 4 | 2 | 544 | . | . | 3 | 1.6 | 3 | 2 | . | 3 |
| 1391 | 4 | 2 | 545 | 48 | 25 | 3 | 3.0 | 1 | 1 | 10 | 3 |
| 1392 | 4 | 2 | 546 | 51 | 30 | 3 | 3.2 | 1 | 0 | . | 3 |
| 1393 | 4 | 2 | 547 | . | . | 3 | 2.1 | 3 | 2 | . | 3 |
| 1394 | 4 | 2 | 548 | 59 | 30 | 3 | 3.5 | 1 | 0 | . | 3 |
| 1395 | 4 | 2 | 549 | 62 | 32 | 3 | 2.0 | 2 | 1 | 11 | 3 |
| 1396 | 4 | 2 | 550 | . | . | 3 | 2.0 | 3 | 2 | . | 3 |
| 1397 | 4 | 2 | 551 | . | . | 3 | 3.3 | 3 | 2 | . | 3 |
| 1398 | 4 | 2 | 552 | 53 | 37 | 2 | 4.4 | 1 | 1 | 15 | 3 |
| 1399 | 4 | 2 | 553 | 51 | 42 | 3 | 4.4 | 2 | 1 | 11 | 3 |
| 1400 | 4 | 2 | 554 | 56 | 44 | 3 | 4.5 | 1 | 0 | . | 3 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1401 | 4 | 2 | 555 | . | . | 3 | 3.4 | 3 | 2 | . | 3 |
| 1402 | 4 | 2 | 556 | . | . | 3 | 1.9 | 3 | 2 | . | 3 |
| 1403 | 4 | 2 | 557 | 45 | 54 | 2 | 5.0 | 1 | 1 | 15 | 3 |
| 1404 | 4 | 2 | 558 | 46 | 56 | 3 | 4.7 | 2 | 1 | 17 | 3 |
| 1405 | 4 | 2 | 559 | . | . | 3 | 3.2 | 3 | 2 | . | 3 |
| 1406 | 4 | 2 | 560 | 51 | 60 | 3 | 3.2 | 2 | 1 | 11 | 3 |
| 1407 | 4 | 2 | 561 | 47 | 60 | 3 | 1.9 | 2 | 1 | 10 | 3 |
| 1408 | 4 | 2 | 562 | 50 | 65 | 3 | 3.3 | 2 | 0 | . | 3 |
| 1409 | 4 | 2 | 563 | 46 | 66 | 2 | 3.8 | 2 | 0 | . | 3 |
| 1410 | 4 | 2 | 564 | 58 | 74 | 3 | 4.9 | 1 | 0 | . | 3 |
| 1411 | 4 | 2 | 565 | 40 | 75 | 3 | 3.5 | 1 | 0 | . | 3 |
| 1412 | 4 | 2 | 566 | 40 | 85 | 2 | 5.8 | 1 | 0 | . | 3 |
| 1413 | 4 | 2 | 567 | 55 | 84 | 2 | 5.1 | 1 | 0 | . | 3 |
| 1414 | 4 | 2 | 568 | 62 | 85 | 2 | 4.4 | 1 | 0 | . | 3 |
| 1415 | 4 | 2 | 569 | 51 | 96 | 2 | 6.5 | 1 | 1 | 18 | 3 |
| 1416 | 4 | 2 | 570 | . | . | 2 | 4.5 | 3 | 2 | . | 3 |
| 1417 | 4 | 2 | 571 | 44 | 92 | 3 | 3.4 | 2 | 0 | . | 3 |
| 1418 | 4 | 2 | 572 | 40 | 94 | 2 | 4.1 | 1 | 1 | 14 | 3 |
| 1419 | 4 | 2 | 573 | 26 | 98 | 3 | 2.1 | 2 | 0 | . | 3 |
| 1420 | 4 | 2 | 574 | 25 | 97 | 3 | 1.6 | 2 | 0 | . | 3 |
| 1421 | 4 | 2 | 575 | 23 | 99 | 3 | 2.1 | 2 | 1 | 8 | 3 |
| 1422 | 4 | 2 | 576 | 38 | 4 | 3 | 3.0 | 2 | 0 | . | 3 |
| 1423 | 4 | 2 | 577 | 33 | 1 | 3 | 1.9 | 2 | 0 | . | 3 |
| 1424 | 4 | 2 | 578 | 27 | 4 | 3 | 3.7 | 1 | 1 | 13 | 3 |
| 1425 | 4 | 2 | 579 | 27 | 10 | 3 | 3.2 | 2 | 1 | 13 | 3 |
| 1426 | 4 | 2 | 580 | . | . | 2 | 4.2 | 3 | 2 | . | 3 |
| 1427 | 4 | 2 | 581 | 37 | 7 | 2 | 4.9 | 1 | 0 | . | 3 |
| 1428 | 4 | 2 | 582 | . | . | 3 | 3.1 | 3 | 2 | . | 3 |
| 1429 | 4 | 2 | 583 | 29 | 16 | 3 | 2.4 | 1 | 1 | 11 | 3 |
| 1430 | 4 | 2 | 584 | 25 | 18 | 3 | 2.6 | 2 | 1 | 10 | 3 |
| 1431 | 4 | 2 | 585 | 27 | 20 | 2 | 3.2 | 1 | 1 | 12 | 3 |
| 1432 | 4 | 2 | 586 | . | . | 3 | 2.5 | 3 | 2 | . | 3 |
| 1433 | 4 | 2 | 587 | 33 | 18 | 3 | 3.1 | 2 | 1 | 11 | 3 |
| 1434 | 4 | 2 | 588 | . | . | 3 | 2.6 | 3 | 2 | . | 3 |
| 1435 | 4 | 2 | 589 | 30 | 30 | 3 | 2.1 | 2 | 0 | . | 3 |
| 1436 | 4 | 2 | 590 | 36 | 31 | 2 | 4.4 | 1 | 0 | . | 3 |
| 1437 | 4 | 2 | 591 | 36 | 36 | 2 | 4.3 | 1 | 0 | . | 3 |
| 1438 | 4 | 2 | 592 | 25 | 36 | 2 | 3.6 | 1 | 1 | 13 | 3 |
| 1439 | 4 | 2 | 593 | 23 | 38 | 3 | 2.4 | 2 | 1 | 10 | 3 |
| 1440 | 4 | 2 | 594 | 24 | 41 | 2 | 4.0 | 1 | 0 | . | 3 |
| 1441 | 4 | 2 | 595 | 31 | 47 | 3 | 3.0 | 1 | 0 | . | 3 |
| 1442 | 4 | 2 | 596 | . | . | 3 | 2.9 | 3 | 2 | . | 3 |
| 1443 | 4 | 2 | 597 | 25 | 54 | 3 | 3.5 | 1 | 1 | 12 | 3 |
| 1444 | 4 | 2 | 598 | 24 | 60 | 3 | 3.2 | 1 | 1 | 11 | 3 |
| 1445 | 4 | 2 | 599 | 14 | 63 | 3 | 3.0 | 1 | 0 | . | 3 |
| 1446 | 4 | 2 | 600 | 15 | 66 | 2 | 4.2 | 1 | 0 | . | 3 |
| 1447 | 4 | 2 | 601 | . | . | 3 | 2.1 | 3 | 2 | . | 3 |
| 1448 | 4 | 2 | 602 | 21 | 80 | 2 | 4.0 | 1 | 0 | . | 3 |
| 1449 | 4 | 2 | 603 | . | . | 3 | 2.0 | 3 | 2 | . | 3 |
| 1450 | 4 | 2 | 604 | . | . | 2 | 4.7 | 5 | 2 | . | 3 |
| 1451 | 4 | 2 | 605 | . | . | 3 | 1.9 | 3 | 2 | . | 3 |
| 1452 | 4 | 2 | 606 | 13 | 92 | 2 | 5.3 | 1 | 1 | 14 | 3 |
| 1453 | 4 | 2 | 607 | 10 | 98 | 3 | 2.3 | 2 | 1 | 8 | 3 |
| 1454 | 4 | 2 | 608 | 8 | 97 | 3 | 1.9 | 2 | 0 | . | 3 |
| 1455 | 4 | 2 | 609 | : | . | 3 | 2.2 | 3 | 2 | . | 3 |
| 1456 | 4 | 2 | 610 | 24 | 4 | 3 | 3.2 | 2 | 0 | . | 3 |
| 1457 | 4 | 2 | 611 | 13 | 2 | 3 | 2.3 | 2 | 0 | . | 3 |
| 1458 | 4 | 2 | 612 | 9 | 0 | 3 | 2.9 | 2 | 0 | . | 3 |
| 1459 | 4 | 2 | 613 | . | . | 3 | 2.1 | 3 | 2 | . | 3 |
| 1460 | 4 | 2 | 614 | 12 | 5 | 3 | 2.6 | 2 | 0 | . | 3 |
| 1461 | 4 | 2 | 615 | 16 | 6 | 3 | 2.9 | 2 | 0 | . | 3 |
| 1462 | 4 | 2 | 616 | 22 | 7 | 3 | 2.1 | 2 | 1 | 11 | 3 |
| 1463 | 4 | 2 | 617 | 17 | 10 | 3 | 3.0 | 2 | 0 | . | 3 |
| 1464 | 4 | 2 | 618 | 12 | 9 | 3 | 2.5 | 2 | 0 | . | 3 |
| 1465 | 4 | 2 | 619 | 8 | 15 | 3 | 1.9 | 2 | 1 | 7 | 3 |
| 1466 | 4 | 2 | 620 | 2 | 18 | 3 | 4.1 | 1 | 1 | 11 | 3 |
| 1467 | 4 | 2 | 621 | . | . | 3 | 2.6 | 3 | 2 | . | 3 |
| 1468 | 4 | 2 | 622 | . | . | 3 | 2.6 | 3 | 2 | . | 3 |
| 1469 | 4 | 2 | 623 | 15 | 21 | 2 | 4.3 | 1 | 0 | . | 3 |
| 1470 | 4 | 2 | 624 | 15 | 33 | 3 | 2.7 | 1 | 0 | . | 3 |
| 1471 | 4 | 2 | 625 | . | . | 3 | 2.3 | 3 | 2 | . | 3 |
| 1472 | 4 | 2 | 626 | 6 | 29 | 3 | 2.5 | 2 | 0 | . | 3 |
| 1473 | 4 | 2 | 627 | 8 | 39 | 2 | 4.5 | 2 | 1 | 14 | 3 |
| 1474 | 4 | 2 | 628 | 8 | 40 | 2 | 4.2 | 2 | 0 | . | 3 |
| 1475 | 4 | 2 | 629 | 14 | 50 | 3 | 1.1 | 2 | 0 | . | 3 |
| 1476 | 4 | 2 | 630 | 8 | 51 | 3 | 1.8 | 2 | 0 | . | 3 |
| 1477 | 4 | 2 | 631 | 6 | 43 | 3 | 1.6 | 2 | 1 | 8 | 3 |
| 1478 | 4 | 2 | 632 | 5 | 59 | 3 | 1.9 | 2 | 0 | . | 3 |
| 1479 | 4 | 2 | 633 | 11 | 66 | 3 | 3.9 | 2 | 0 | . | 3 |
| 1480 | 4 | 2 | 634 | 2 | 65 | 2 | 4.6 | 1 | 1 | 13 | 3 |
| 1481 | 4 | 2 | 635 | 5 | 70 | 3 | 3.0 | 2 | 1 | 12 | 3 |
| 1482 | 4 | 2 | 636 | . | . | 3 | 2.0 | 3 | 2 | . | 3 |
| 1483 | 4 | 2 | 637 | 11 | 73 | 3 | 4.0 | 2 | 0 | . | 3 |
| 1484 | 4 | 2 | 638 | 12 | 77 | 3 | 2.9 | 2 | 0 | . | 3 |
| 1485 | 4 | 2 | 639 | . | . | 3 | 2.4 | 3 | 2 | . | 3 |
| 1486 | 4 | 2 | 640 | 9 | 79 | 3 | 3.7 | 2 | 0 | . | 3 |
| 1487 | 4 | 2 | 641 | . | . | 3 | 2.7 | 3 | 2 | . | 3 |
| 1488 | 4 | 2 | 642 | . | . | 3 | 3.1 | 3 | 2 | . | 3 |
| 1489 | 4 | 2 | 643 | 2 | 76 | 3 | 4.5 | 2 | 0 | . | 3 |
| 1490 | 4 | 2 | 644 | 4 | 83 | 3 | 4.0 | 1 | 0 | . | 3 |
| 1491 | 4 | 2 | 645 | 8 | 84 | 3 | 2.4 | 2 | 1 | 12 | 3 |
| 1492 | 4 | 2 | 646 | 10 | 83 | 3 | 2.9 | 2 | 0 | . | 3 |
| 1493 | 4 | 2 | 647 | 7 | 87 | 3 | 1.9 | 2 | 0 | . | 3 |
| 1494 | 4 | 2 | 648 | 6 | 88 | 3 | 1.8 | 2 | 0 | . | 3 |
| 1495 | 4 | 2 | 649 | 8 | 92 | 3 | 2.3 | 2 | 0 | . | 3 |
| 1496 | 4 | 2 | 650 | 3 | 89 | 3 | 2.9 | 2 | 0 | . | 3 |
| 1497 | 4 | 3 | 651 | 5 | 90 | 2 | 4.8 | 1 | 0 | . | 4 |
| 1498 | 4 | 3 | 652 | 10 | 91 | 2 | 4.8 | 3 | 0 | . | 4 |
| 1499 | 4 | 3 | 653 | 15 | 96 | 3 | 3.4 | 2 | 0 | . | 4 |
| 1500 | 4 | 3 | 654 | 18 | 90 | 3 | 3.1 | 3 | 0 | . | 4 |

Listing of  Ident (1990) + Observed (1991-97)          31
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1501 | 4 | 3 | 655 | 16 | 85 | 3 | 2.5 | 4 | 0 | . | 4 |
| 1502 | 4 | 3 | 656 | 14 | 85 | 3 | 2.6 | 3 | 0 | . | 4 |
| 1503 | 4 | 3 | 657 | 16 | 82 | 3 | 3.0 | 2 | 0 | . | 4 |
| 1504 | 4 | 3 | 658 | 14 | 79 | 3 | 2.8 | 3 | 0 | . | 4 |
| 1505 | 4 | 3 | 659 | 10 | 82 | 3 | 1.5 | 3 | 0 | . | 4 |
| 1506 | 4 | 3 | 660 | 1 | 84 | 3 | 2.2 | 2 | 0 | . | 4 |
| 1507 | 4 | 3 | 661 | 4 | 71 | 2 | 5.1 | 1 | 1 | 10 | 4 |
| 1508 | 4 | 3 | 662 | 17 | 79 | 3 | 2.2 | 4 | 0 | . | 4 |
| 1509 | 4 | 3 | 663 | 23 | 73 | 2 | 4.3 | 1 | 0 | . | 4 |
| 1510 | 4 | 3 | 664 | 24 | 67 | 2 | 4.0 | 3 | 0 | . | 4 |
| 1511 | 4 | 3 | 665 | 21 | 60 | 2 | 4.4 | 1 | 0 | . | 4 |
| 1512 | 4 | 3 | 666 | 12 | 59 | 3 | 4.1 | 1 | 1 | 9 | 4 |
| 1513 | 4 | 3 | 667 | 7 | 60 | 3 | 2.3 | 2 | 0 | . | 4 |
| 1514 | 4 | 3 | 668 | 3 | 65 | 3 | 1.4 | 3 | 0 | . | 4 |
| 1515 | 4 | 3 | 669 | 3 | 56 | 3 | 2.6 | 2 | 0 | . | 4 |
| 1516 | 4 | 3 | 670 | 9 | 45 | 2 | 4.1 | 1 | 1 | 12 | 4 |
| 1517 | 4 | 3 | 671 | 6 | 42 | 3 | 2.7 | 4 | 0 | . | 4 |
| 1518 | 4 | 3 | 672 | 3 | 40 | 3 | 2.7 | 2 | 0 | . | 4 |
| 1519 | 4 | 3 | 673 | 11 | 40 | 3 | 2.6 | 4 | 0 | . | 4 |
| 1520 | 4 | 3 | 674 | 15 | 35 | 3 | 3.0 | 2 | 0 | . | 4 |
| 1521 | 4 | 3 | 675 | 11 | 37 | 2 | 3.5 | 1 | 1 | 14 | 4 |
| 1522 | 4 | 3 | 676 | 7 | 37 | 3 | 2.2 | 4 | 0 | . | 4 |
| 1523 | 4 | 3 | 677 | 5 | 35 | 3 | 2.0 | 4 | 0 | . | 4 |
| 1524 | 4 | 3 | 678 | 1 | 30 | 3 | 3.4 | 1 | 0 | . | 4 |
| 1525 | 4 | 3 | 679 | . | . | 3 | 1.6 | 5 | 2 | . | 4 |
| 1526 | 4 | 3 | 680 | 13 | 29 | 3 | 3.7 | 1 | 1 | 11 | 4 |
| 1527 | 4 | 3 | 681 | 11 | 21 | 3 | 3.0 | 1 | 0 | . | 4 |
| 1528 | 4 | 3 | 682 | 2 | 25 | 3 | 2.5 | 2 | 0 | . | 4 |
| 1529 | 4 | 3 | 683 | 18 | 15 | 3 | 4.2 | 1 | 0 | . | 4 |
| 1530 | 4 | 3 | 684 | 16 | 12 | 3 | 3.3 | 3 | 0 | . | 4 |
| 1531 | 4 | 3 | 685 | 11 | 12 | 3 | 3.0 | 1 | 0 | . | 4 |
| 1532 | 4 | 3 | 686 | 7 | 8 | 3 | 2.2 | 3 | 0 | . | 4 |
| 1533 | 4 | 3 | 687 | 16 | 8 | 3 | 3.0 | 4 | 0 | . | 4 |
| 1534 | 4 | 3 | 688 | 16 | 4 | 3 | 3.0 | 2 | 0 | . | 4 |
| 1535 | 4 | 3 | 689 | 11 | 1 | 3 | 3.9 | 1 | 0 | . | 4 |
| 1536 | 4 | 3 | 690 | . | . | 3 | 1.6 | 5 | 2 | . | 4 |
| 1537 | 4 | 3 | 691 | 7 | 1 | 3 | 3.0 | 4 | 0 | . | 4 |
| 1538 | 4 | 3 | 692 | 3 | 3 | 3 | 3.7 | 1 | 0 | . | 4 |
| 1539 | 4 | 3 | 693 | 20 | 97 | 3 | 2.4 | 3 | 0 | . | 4 |
| 1540 | 4 | 3 | 694 | 31 | 99 | 3 | 3.8 | 2 | 0 | . | 4 |
| 1541 | 4 | 3 | 695 | 21 | 91 | 2 | 3.7 | 1 | 1 | 12 | 4 |
| 1542 | 4 | 3 | 696 | 29 | 91 | 2 | 3.5 | 2 | 0 | . | 4 |
| 1543 | 4 | 3 | 697 | 33 | 89 | 2 | 3.8 | 1 | 1 | 11 | 4 |
| 1544 | 4 | 3 | 698 | 27 | 82 | 2 | 3.7 | 1 | 0 | . | 4 |
| 1545 | 4 | 3 | 699 | 29 | 78 | 2 | 3.8 | 3 | 0 | . | 4 |
| 1546 | 4 | 3 | 700 | 30 | 72 | 3 | 2.6 | 2 | 0 | . | 4 |
| 1547 | 4 | 3 | 701 | 34 | 67 | 3 | 2.6 | 2 | 0 | . | 4 |
| 1548 | 4 | 3 | 702 | 27 | 64 | 2 | 3.0 | 2 | 0 | . | 4 |
| 1549 | 4 | 3 | 703 | 27 | 61 | 3 | 2.3 | 4 | 0 | . | 4 |
| 1550 | 4 | 3 | 704 | 31 | 60 | 3 | 3.1 | 3 | 0 | . | 4 |

Listing of  Ident (1990) + Observed (1991-97)          32
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1551 | 4 | 3 | 705 | 26 | 57 | 2 | 3.8 | 2 | 0 | . | 4 |
| 1552 | 4 | 3 | 706 | 34 | 56 | 2 | 3.2 | 2 | 0 | . | 4 |
| 1553 | 4 | 3 | 707 | 33 | 52 | 3 | 3.2 | 4 | 0 | . | 4 |
| 1554 | 4 | 3 | 708 | 29 | 48 | 2 | 3.3 | 1 | 1 | 11 | 4 |
| 1555 | 4 | 3 | 709 | 25 | 50 | 3 | 2.2 | 2 | 0 | . | 4 |
| 1556 | 4 | 3 | 710 | 33 | 46 | 3 | 2.6 | 3 | 0 | . | 4 |
| 1557 | 4 | 3 | 711 | 24 | 44 | 2 | 3.1 | 2 | 0 | . | 4 |
| 1558 | 4 | 3 | 712 | 32 | 39 | 3 | 3.1 | 2 | 0 | . | 4 |
| 1559 | 4 | 3 | 713 | 31 | 35 | 3 | 2.8 | 4 | 0 | . | 4 |
| 1560 | 4 | 3 | 714 | 26 | 35 | 3 | 2.5 | 2 | 0 | . | 4 |
| 1561 | 4 | 3 | 715 | 19 | 32 | 3 | 3.2 | 2 | 0 | . | 4 |
| 1562 | 4 | 3 | 716 | 17 | 30 | 3 | 2.5 | 4 | 0 | . | 4 |
| 1563 | 4 | 3 | 717 | 18 | 25 | 2 | 4.3 | 1 | 1 | 13 | 4 |
| 1564 | 4 | 3 | 718 | 21 | 28 | 3 | 3.5 | 3 | 0 | . | 4 |
| 1565 | 4 | 3 | 719 | 30 | 30 | 3 | 3.2 | 2 | 0 | . | 4 |
| 1566 | 4 | 3 | 720 | 35 | 29 | 3 | 2.4 | 3 | 0 | . | 4 |
| 1567 | 4 | 3 | 721 | 28 | 23 | 3 | 2.1 | 3 | 0 | . | 4 |
| 1568 | 4 | 3 | 722 | 23 | 20 | 2 | 4.5 | 1 | 1 | 13 | 4 |
| 1569 | 4 | 3 | 723 | 33 | 18 | 3 | 3.0 | 1 | 0 | . | 4 |
| 1570 | 4 | 3 | 724 | 28 | 8 | 3 | 3.6 | 1 | 0 | . | 4 |
| 1571 | 4 | 3 | 725 | 23 | 4 | 2 | 3.8 | 1 | 1 | 12 | 4 |
| 1572 | 4 | 3 | 726 | 33 | 1 | 2 | 4.2 | 1 | 1 | 13 | 4 |
| 1573 | 4 | 3 | 727 | 50 | 98 | 2 | 3.9 | 1 | 1 | 9 | 4 |
| 1574 | 4 | 3 | 728 | 42 | 89 | 2 | 4.6 | 2 | 0 | . | 4 |
| 1575 | 4 | 3 | 729 | 35 | 85 | 3 | 1.8 | 4 | 0 | . | 4 |
| 1576 | 4 | 3 | 730 | 43 | 82 | 2 | 4.6 | 3 | 0 | . | 4 |
| 1577 | 4 | 3 | 731 | 41 | 77 | 2 | 4.6 | 2 | 0 | . | 4 |
| 1578 | 4 | 3 | 732 | 48 | 74 | 3 | 3.1 | 3 | 0 | . | 4 |
| 1579 | 4 | 3 | 733 | 53 | 74 | 3 | 2.6 | 2 | 0 | . | 4 |
| 1580 | 4 | 3 | 734 | 51 | 70 | 2 | 3.8 | 2 | 0 | . | 4 |
| 1581 | 4 | 3 | 735 | 46 | 70 | 3 | 2.2 | 4 | 0 | . | 4 |
| 1582 | 4 | 3 | 736 | 48 | 67 | 3 | 3.6 | 2 | 0 | . | 4 |
| 1583 | 4 | 3 | 737 | 38 | 64 | 3 | 2.5 | 2 | 0 | . | 4 |
| 1584 | 4 | 3 | 738 | 39 | 59 | 3 | 3.0 | 1 | 0 | . | 4 |
| 1585 | 4 | 3 | 739 | 52 | 67 | 3 | 2.2 | 3 | 0 | . | 4 |
| 1586 | 4 | 3 | 740 | 35 | 50 | 2 | 3.8 | 2 | 0 | . | 4 |
| 1587 | 4 | 3 | 741 | 47 | 44 | 3 | 3.3 | 2 | 0 | . | 4 |
| 1588 | 4 | 3 | 742 | 43 | 42 | 2 | 3.1 | 3 | 0 | . | 4 |
| 1589 | 4 | 3 | 743 | 41 | 37 | 3 | 2.8 | 4 | 0 | . | 4 |
| 1590 | 4 | 3 | 744 | 46 | 38 | 3 | 2.7 | 3 | 0 | . | 4 |
| 1591 | 4 | 3 | 745 | 44 | 32 | 2 | 4.0 | 1 | 0 | . | 4 |
| 1592 | 4 | 3 | 746 | 53 | 39 | 3 | 3.2 | 1 | 0 | . | 4 |
| 1593 | 4 | 3 | 747 | 52 | 23 | 3 | 4.1 | 1 | 0 | . | 4 |
| 1594 | 4 | 3 | 748 | 43 | 21 | 2 | 4.5 | 1 | 1 | 11 | 4 |
| 1595 | 4 | 3 | 749 | 40 | 18 | 3 | 2.7 | 4 | 0 | . | 4 |
| 1596 | 4 | 3 | 750 | 43 | 13 | 2 | 5.5 | 1 | 1 | 12 | 4 |
| 1597 | 4 | 3 | 751 | 63 | 96 | 3 | 3.5 | 1 | 1 | 9 | 4 |
| 1598 | 4 | 3 | 752 | 64 | 93 | 3 | 2.5 | 4 | 0 | . | 4 |
| 1599 | 4 | 3 | 753 | 59 | 92 | 3 | 3.2 | 2 | 0 | . | 4 |
| 1600 | 4 | 3 | 754 | 61 | 89 | 2 | 3.5 | 3 | 0 | . | 4 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 1601 | 4 | 3 | 755 | 65 | 87 | 3 | 2.8 | 3 | 0 | . | 4 |
| 1602 | 4 | 3 | 756 | 63 | 83 | 3 | 2.3 | 3 | 0 | . | 4 |
| 1603 | 4 | 3 | 757 | 62 | 82 | 3 | 3.1 | 2 | 0 | . | 4 |
| 1604 | 4 | 3 | 758 | 55 | 71 | 3 | 2.3 | 3 | 0 | . | 4 |
| 1605 | 4 | 3 | 759 | 65 | 74 | 2 | 5.1 | 1 | 0 | . | 4 |
| 1606 | 4 | 3 | 760 | 65 | 67 | 3 | 1.9 | 3 | 0 | . | 4 |
| 1607 | 4 | 3 | 761 | 59 | 53 | 3 | 2.8 | 3 | 0 | . | 4 |
| 1608 | 4 | 3 | 762 | 63 | 51 | 3 | 4.1 | 1 | 1 | 9 | 4 |
| 1609 | 4 | 3 | 763 | 55 | 45 | 3 | 3.2 | 1 | 0 | . | 4 |
| 1610 | 4 | 3 | 764 | 58 | 42 | 3 | 3.1 | 3 | 0 | . | 4 |
| 1611 | 4 | 3 | 765 | 63 | 32 | 3 | 2.8 | 2 | 0 | . | 4 |
| 1612 | 4 | 3 | 766 | 63 | 28 | 3 | 2.7 | 2 | 0 | . | 4 |
| 1613 | 4 | 3 | 767 | 59 | 17 | 2 | 5.3 | 1 | 0 | . | 4 |
| 1614 | 4 | 3 | 768 | 59 | 11 | 3 | 2.2 | 3 | 0 | . | 4 |
| 1615 | 4 | 3 | 769 | 64 | 8 | 3 | 3.2 | 1 | 1 | 10 | 4 |
| 1616 | 4 | 3 | 770 | 60 | 3 | 3 | 3.0 | 3 | 0 | . | 4 |
| 1617 | 4 | 3 | 771 | 58 | 1 | 2 | 4.1 | 1 | 0 | . | 4 |
| 1618 | 4 | 4 | 772 | 4 | 93 | 3 | 2.9 | 2 | 0 | . | 2 |
| 1619 | 4 | 4 | 773 | 7 | 88 | 2 | 4.3 | 1 | 0 | . | 2 |
| 1620 | 4 | 4 | 774 | . | . | 3 | 2.1 | 4 | 2 | . | 2 |
| 1621 | 4 | 4 | 775 | 17 | 95 | 3 | 2.6 | 2 | 0 | . | 2 |
| 1622 | 4 | 4 | 776 | 23 | 97 | 3 | 3.2 | 1 | 0 | . | 2 |
| 1623 | 4 | 4 | 777 | . | . | 3 | 2.1 | 3 | 2 | . | 2 |
| 1624 | 4 | 4 | 778 | 22 | 85 | 3 | 1.9 | 2 | 0 | . | 2 |
| 1625 | 4 | 4 | 779 | 17 | 83 | 3 | 2.9 | 2 | 0 | . | 2 |
| 1626 | 4 | 4 | 780 | . | . | 3 | 2.2 | 3 | 2 | . | 2 |
| 1627 | 4 | 4 | 781 | 6 | 75 | 3 | 4.0 | 2 | 0 | . | 2 |
| 1628 | 4 | 4 | 782 | . | . | 3 | 2.3 | 3 | 2 | . | 2 |
| 1629 | 4 | 4 | 783 | 19 | 75 | 3 | 2.8 | 1 | 0 | . | 2 |
| 1630 | 4 | 4 | 784 | 6 | 64 | 2 | 4.7 | 1 | 1 | 10 | 2 |
| 1631 | 4 | 4 | 785 | 14 | 66 | 3 | 2.9 | 3 | 0 | . | 2 |
| 1632 | 4 | 4 | 786 | 20 | 63 | 2 | 5.0 | 1 | 0 | . | 2 |
| 1633 | 4 | 4 | 787 | 18 | 44 | 2 | 3.9 | 1 | 1 | 12 | 2 |
| 1634 | 4 | 4 | 788 | 13 | 46 | 2 | 4.1 | 3 | 0 | . | 2 |
| 1635 | 4 | 4 | 789 | 8 | 47 | 3 | 2.9 | 1 | 0 | . | 2 |
| 1636 | 4 | 4 | 790 | 2 | 41 | 2 | 3.8 | 1 | 0 | . | 2 |
| 1637 | 4 | 4 | 791 | . | . | 3 | 2.5 | 3 | 2 | . | 2 |
| 1638 | 4 | 4 | 792 | . | . | 3 | 2.4 | 4 | 2 | . | 2 |
| 1639 | 4 | 4 | 793 | 20 | 33 | 3 | 3.0 | 2 | 0 | . | 2 |
| 1640 | 4 | 4 | 794 | 15 | 29 | 3 | 2.6 | 2 | 0 | . | 2 |
| 1641 | 4 | 4 | 795 | 6 | 33 | 2 | 3.9 | 1 | 1 | 10 | 2 |
| 1642 | 4 | 4 | 796 | . | . | 3 | 3.1 | 4 | 2 | . | 2 |
| 1643 | 4 | 4 | 797 | 1 | 23 | 2 | 5.3 | 1 | 0 | . | 2 |
| 1644 | 4 | 4 | 798 | 9 | 21 | 3 | 3.5 | 3 | 0 | . | 2 |
| 1645 | 4 | 4 | 799 | 17 | 25 | 3 | 2.5 | 2 | 0 | . | 2 |
| 1646 | 4 | 4 | 800 | . | . | 3 | 2.9 | 4 | 2 | . | 2 |
| 1647 | 4 | 4 | 801 | 14 | 19 | 3 | 4.5 | 1 | 1 | 10 | 2 |
| 1648 | 4 | 4 | 802 | 1 | 19 | 3 | 2.8 | 4 | 0 | . | 2 |
| 1649 | 4 | 4 | 803 | 4 | 12 | 2 | 3.8 | 1 | 1 | 11 | 2 |
| 1650 | 4 | 4 | 804 | 1 | 9 | 2 | 3.2 | 3 | 0 | . | 2 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|-----|-------|------|-----|------|-------|-------|-------|------|----------|--------|-------|
| 1651 | 4 | 4 | 805 | . | . | 3 | 1.9 | 4 | 2 | . | 2 |
| 1652 | 4 | 4 | 806 | 1 | 5 | 2 | 3.3 | 2 | 0 | . | 2 |
| 1653 | 4 | 4 | 807 | 11 | 1 | 2 | 5.0 | 1 | 0 | . | 2 |
| 1654 | 4 | 4 | 808 | 19 | 1 | 2 | 3.8 | 1 | 0 | . | 2 |
| 1655 | 4 | 4 | 809 | 27 | 97 | 2 | 4.5 | 1 | 0 | . | 2 |
| 1656 | 4 | 4 | 810 | 37 | 97 | 3 | 2.9 | 1 | 0 | . | 2 |
| 1657 | 4 | 4 | 811 | 51 | 97 | 3 | 3.3 | 1 | 1 | 8 | 2 |
| 1658 | 4 | 4 | 812 | 54 | 90 | 3 | 3.2 | 1 | 0 | . | 2 |
| 1659 | 4 | 4 | 813 | 49 | 87 | 2 | 3.8 | 2 | 0 | . | 2 |
| 1660 | 4 | 4 | 814 | . | . | 3 | 2.5 | 4 | 2 | . | 2 |
| 1661 | 4 | 4 | 815 | 36 | 86 | 2 | 3.7 | 2 | 0 | . | 2 |
| 1662 | 4 | 4 | 816 | 28 | 85 | 3 | 2.0 | 2 | 0 | . | 2 |
| 1663 | 4 | 4 | 817 | 40 | 78 | 2 | 4.3 | 1 | 0 | . | 2 |
| 1664 | 4 | 4 | 818 | . | . | 3 | 2.5 | 4 | 2 | . | 2 |
| 1665 | 4 | 4 | 819 | 45 | 75 | 2 | 5.1 | 1 | 1 | 12 | 2 |
| 1666 | 4 | 4 | 820 | . | . | 3 | 2.0 | 3 | 2 | . | 2 |
| 1667 | 4 | 4 | 821 | . | . | 3 | 1.4 | 3 | 2 | . | 2 |
| 1668 | 4 | 4 | 822 | 47 | 62 | 3 | 3.5 | 1 | 1 | 8 | 2 |
| 1669 | 4 | 4 | 823 | 42 | 62 | 3 | 2.0 | 2 | 0 | . | 2 |
| 1670 | 4 | 4 | 824 | 31 | 64 | 2 | 5.3 | 1 | 0 | . | 2 |
| 1671 | 4 | 4 | 825 | 26 | 59 | 2 | 3.7 | 1 | 0 | . | 2 |
| 1672 | 4 | 4 | 826 | 37 | 59 | 3 | 3.1 | 2 | 0 | . | 2 |
| 1673 | 4 | 4 | 827 | . | . | 3 | 2.2 | 4 | 2 | . | 2 |
| 1674 | 4 | 4 | 828 | 37 | 55 | 3 | 3.9 | 2 | 0 | . | 2 |
| 1675 | 4 | 4 | 829 | . | . | 3 | 1.9 | 3 | 2 | . | 2 |
| 1676 | 4 | 4 | 830 | . | . | 3 | 2.2 | 3 | 2 | . | 2 |
| 1677 | 4 | 4 | 831 | . | . | 3 | 1.8 | 3 | 2 | . | 2 |
| 1678 | 4 | 4 | 832 | . | . | 1 | 6.4 | 5 | 2 | . | 2 |
| 1679 | 4 | 4 | 833 | 38 | 41 | 3 | 3.5 | 2 | 0 | . | 2 |
| 1680 | 4 | 4 | 834 | 33 | 40 | 3 | 2.9 | 2 | 0 | . | 2 |
| 1681 | 4 | 4 | 835 | 28 | 35 | 2 | 5.3 | 1 | 0 | . | 2 |
| 1682 | 4 | 4 | 836 | . | . | 3 | 2.5 | 3 | 2 | . | 2 |
| 1683 | 4 | 4 | 837 | 31 | 29 | 3 | 2.6 | 3 | 0 | . | 2 |
| 1684 | 4 | 4 | 838 | 38 | 31 | 2 | 4.2 | 2 | 0 | . | 2 |
| 1685 | 4 | 4 | 839 | 42 | 29 | 2 | 4.6 | 1 | 1 | 13 | 2 |
| 1686 | 4 | 4 | 840 | . | . | 3 | 1.9 | 4 | 2 | . | 2 |
| 1687 | 4 | 4 | 841 | 50 | 33 | 2 | 4.0 | 1 | 1 | 12 | 2 |
| 1688 | 4 | 4 | 842 | 53 | 29 | 3 | 3.0 | 3 | 0 | . | 2 |
| 1689 | 4 | 4 | 843 | . | . | 3 | 2.3 | 3 | 2 | . | 2 |
| 1690 | 4 | 4 | 844 | 48 | 23 | 3 | 2.8 | 2 | 0 | . | 2 |
| 1691 | 4 | 4 | 845 | 36 | 20 | 2 | 3.7 | 1 | 0 | . | 2 |
| 1692 | 4 | 4 | 846 | . | . | 3 | 1.7 | 3 | 2 | . | 2 |
| 1693 | 4 | 4 | 847 | 40 | 16 | 3 | 3.0 | 2 | 0 | . | 2 |
| 1694 | 4 | 4 | 848 | . | . | 3 | 1.9 | 5 | 2 | . | 2 |
| 1695 | 4 | 4 | 849 | 55 | 19 | 3 | 4.2 | 1 | 0 | . | 2 |
| 1696 | 4 | 4 | 850 | 57 | 13 | 2 | 4.6 | 3 | 0 | . | 2 |
| 1697 | 4 | 4 | 851 | 45 | 10 | 2 | 3.5 | 2 | 0 | . | 2 |
| 1698 | 4 | 4 | 852 | . | . | 3 | 1.8 | 3 | 2 | . | 2 |
| 1699 | 4 | 4 | 853 | 36 | 16 | 3 | 4.1 | 1 | 0 | . | 2 |
| 1700 | 4 | 4 | 854 | 45 | 2 | 2 | 4.1 | 1 | 0 | . | 2 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1701 | 4 | 4 | 855 | 52 | 5 | 2 | 3.6 | 3 | 0 | . | 2 |
| 1702 | 4 | 4 | 856 | 52 | 6 | 2 | 2.8 | 3 | 0 | . | 2 |
| 1703 | 4 | 4 | 857 | . | . | 3 | 2.5 | 3 | 2 | . | 2 |
| 1704 | 4 | 4 | 858 | 62 | 2 | 3 | 2.0 | 2 | 0 | . | 2 |
| 1705 | 4 | 4 | 859 | 46 | 98 | 3 | 2.9 | 3 | 0 | . | 2 |
| 1706 | 4 | 4 | 860 | 51 | 90 | 3 | 4.1 | 2 | 0 | . | 2 |
| 1707 | 4 | 4 | 861 | 59 | 99 | 3 | 3.0 | 3 | 0 | . | 2 |
| 1708 | 4 | 4 | 862 | 60 | 94 | 3 | 3.2 | 2 | 0 | . | 2 |
| 1709 | 4 | 4 | 863 | 65 | 89 | 2 | 4.4 | 1 | 0 | . | 2 |
| 1710 | 4 | 4 | 864 | 62 | 85 | 3 | 3.2 | 3 | 0 | . | 2 |
| 1711 | 4 | 4 | 865 | 51 | 84 | 2 | 3.8 | 1 | 1 | 11 | 2 |
| 1712 | 4 | 4 | 866 | 51 | 78 | 2 | 2.8 | 1 | 1 | 11 | 2 |
| 1713 | 4 | 4 | 867 | 53 | 76 | 3 | 2.7 | 3 | 0 | . | 2 |
| 1714 | 4 | 4 | 868 | . | . | 3 | 2.0 | 3 | 2 | . | 2 |
| 1715 | 4 | 4 | 869 | 65 | 70 | 3 | 2.9 | 2 | 0 | . | 2 |
| 1716 | 4 | 4 | 870 | 53 | 71 | 2 | 4.0 | 1 | 0 | . | 2 |
| 1717 | 4 | 4 | 871 | 58 | 64 | 3 | 2.9 | 2 | 0 | . | 2 |
| 1718 | 4 | 4 | 872 | . | . | 3 | 2.3 | 3 | 2 | . | 2 |
| 1719 | 4 | 4 | 873 | 66 | 61 | 3 | 2.9 | 2 | 0 | . | 2 |
| 1720 | 4 | 4 | 874 | 63 | 57 | 3 | 2.5 | 2 | 0 | . | 2 |
| 1721 | 4 | 4 | 875 | 57 | 61 | 3 | 3.0 | 3 | 0 | . | 2 |
| 1722 | 4 | 4 | 876 | 51 | 56 | 3 | 3.0 | 2 | 0 | . | 2 |
| 1723 | 4 | 4 | 877 | 66 | 54 | 3 | 2.1 | 2 | 0 | . | 2 |
| 1724 | 4 | 4 | 878 | 62 | 50 | 2 | 3.7 | 1 | 0 | . | 2 |
| 1725 | 4 | 4 | 879 | 58 | 48 | 3 | 3.3 | 2 | 0 | . | 2 |
| 1726 | 4 | 4 | 880 | . | . | 3 | 1.5 | 3 | 2 | . | 2 |
| 1727 | 4 | 4 | 881 | 64 | 19 | 3 | 3.2 | 2 | 0 | . | 2 |
| 1728 | 4 | 4 | 882 | 66 | 13 | 3 | 2.7 | 2 | 0 | . | 2 |
| 1729 | 4 | 4 | 883 | . | . | 3 | 1.4 | 3 | 2 | . | 2 |
| 1730 | 4 | 5 | 884 | 6 | 3 | 2 | 4.1 | 1 | 0 | . | 1 |
| 1731 | 4 | 5 | 885 | 2 | 8 | 3 | 3.2 | 1 | 0 | . | 1 |
| 1732 | 4 | 5 | 886 | 4 | 9 | 3 | 4.2 | 3 | 0 | . | 1 |
| 1733 | 4 | 5 | 887 | 12 | 14 | 3 | 2.0 | 2 | 0 | . | 1 |
| 1734 | 4 | 5 | 888 | 14 | 3 | 3 | 3.8 | 1 | 0 | . | 1 |
| 1735 | 4 | 5 | 889 | 20 | 0 | 3 | 3.2 | 2 | 0 | . | 1 |
| 1736 | 4 | 5 | 890 | 23 | 12 | 3 | 4.6 | 1 | 0 | . | 1 |
| 1737 | 4 | 5 | 891 | 24 | 16 | 2 | 3.6 | 1 | 0 | . | 1 |
| 1738 | 4 | 5 | 892 | 31 | 22 | 2 | 4.2 | 1 | 0 | . | 1 |
| 1739 | 4 | 5 | 893 | 29 | 15 | 2 | 3.3 | 1 | 0 | . | 1 |
| 1740 | 4 | 5 | 894 | 28 | 9 | 3 | 1.9 | 3 | 0 | . | 1 |
| 1741 | 4 | 5 | 895 | 33 | 6 | 3 | 3.2 | 2 | 0 | . | 1 |
| 1742 | 4 | 5 | 896 | 36 | 10 | 3 | 2.1 | 2 | 0 | . | 1 |
| 1743 | 4 | 5 | 897 | 36 | 22 | 2 | 3.2 | 3 | 0 | . | 1 |
| 1744 | 4 | 5 | 898 | 39 | 18 | 3 | 2.2 | 2 | 0 | . | 1 |
| 1745 | 4 | 5 | 899 | 45 | 8 | 3 | 2.8 | 1 | 0 | . | 1 |
| 1746 | 4 | 5 | 900 | 38 | 0 | 3 | 2.2 | 2 | 0 | . | 1 |
| 1747 | 4 | 5 | 901 | 50 | 2 | 2 | 4.0 | 1 | 0 | . | 1 |
| 1748 | 4 | 5 | 902 | 53 | 15 | 3 | 2.6 | 2 | 0 | . | 1 |
| 1749 | 4 | 5 | 903 | 50 | 20 | 2 | 4.2 | 1 | 0 | . | 1 |
| 1750 | 4 | 5 | 904 | 58 | 19 | 3 | 2.5 | 3 | 0 | . | 1 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1751 | 4 | 5 | 905 | 58 | 12 | 2 | 3.6 | 2 | 0 | . | 1 |
| 1752 | 4 | 5 | 906 | 59 | 4 | 2 | 4.4 | 1 | 0 | . | 1 |
| 1753 | 4 | 5 | 907 | 69 | 8 | 3 | 2.9 | 3 | 0 | . | 1 |
| 1754 | 4 | 5 | 908 | 63 | 14 | 3 | 3.8 | 2 | 0 | . | 1 |
| 1755 | 4 | 5 | 909 | 77 | 25 | 3 | 3.5 | 3 | 0 | . | 1 |
| 1756 | 4 | 5 | 910 | 80 | 34 | 3 | 2.8 | 3 | 0 | . | 1 |
| 1757 | 4 | 5 | 911 | 83 | 29 | 2 | 5.9 | 2 | 0 | . | 1 |
| 1758 | 4 | 5 | 912 | 81 | 24 | 2 | 4.5 | 1 | 0 | . | 1 |
| 1759 | 4 | 5 | 913 | 86 | 9 | 3 | 1.8 | 3 | 0 | . | 1 |
| 1760 | 4 | 5 | 914 | 86 | 4 | 3 | 3.5 | 1 | 0 | . | 1 |
| 1761 | 4 | 5 | 915 | 94 | 3 | 3 | 2.8 | 4 | 0 | . | 1 |
| 1762 | 4 | 5 | 916 | 93 | 6 | 2 | 4.5 | 1 | 0 | . | 1 |
| 1763 | 4 | 5 | 917 | 93 | 16 | 3 | 3.1 | 1 | 0 | . | 1 |
| 1764 | 4 | 5 | 918 | 98 | 26 | 3 | 2.1 | 1 | 0 | . | 1 |
| 1765 | 4 | 5 | 919 | 99 | 18 | 3 | 2.5 | 1 | 0 | . | 1 |
| 1766 | 4 | 5 | 920 | 96 | 16 | 3 | 2.5 | 3 | 0 | . | 1 |
| 1767 | 4 | 5 | 921 | 3 | 21 | 3 | 1.9 | 2 | 0 | . | 1 |
| 1768 | 4 | 5 | 922 | 8 | 23 | 3 | 2.5 | 1 | 0 | . | 1 |
| 1769 | 4 | 5 | 923 | 6 | 28 | 3 | 2.5 | 1 | 0 | . | 1 |
| 1770 | 4 | 5 | 924 | 14 | 40 | 3 | 1.9 | 2 | 0 | . | 1 |
| 1771 | 4 | 5 | 925 | 13 | 36 | 3 | 2.2 | 1 | 0 | . | 1 |
| 1772 | 4 | 5 | 926 | 16 | 30 | 3 | 2.8 | 1 | 0 | . | 1 |
| 1773 | 4 | 5 | 927 | 16 | 25 | 2 | 3.4 | 1 | 0 | . | 1 |
| 1774 | 4 | 5 | 928 | 19 | 27 | 2 | 3.5 | 1 | 0 | . | 1 |
| 1775 | 4 | 5 | 929 | 18 | 37 | 3 | 1.9 | 2 | 0 | . | 1 |
| 1776 | 4 | 5 | 930 | 22 | 32 | 3 | 2.5 | 2 | 0 | . | 1 |
| 1777 | 4 | 5 | 931 | 25 | 26 | 2 | 3.1 | 1 | 0 | . | 1 |
| 1778 | 4 | 5 | 932 | 32 | 29 | 3 | 2.3 | 2 | 0 | . | 1 |
| 1779 | 4 | 5 | 933 | 39 | 31 | 2 | 4.4 | 1 | 0 | . | 1 |
| 1780 | 4 | 5 | 934 | 42 | 26 | 2 | 2.7 | 3 | 0 | . | 1 |
| 1781 | 4 | 5 | 935 | 46 | 25 | 2 | 4.1 | 2 | 0 | . | 1 |
| 1782 | 4 | 5 | 936 | 47 | 32 | 2 | 3.7 | 1 | 0 | . | 1 |
| 1783 | 4 | 5 | 937 | 49 | 34 | 3 | 2.2 | 3 | 0 | . | 1 |
| 1784 | 4 | 5 | 938 | 55 | 36 | 3 | 2.5 | 1 | 0 | . | 1 |
| 1785 | 4 | 5 | 939 | 60 | 32 | 2 | 3.7 | 1 | 0 | . | 1 |
| 1786 | 4 | 5 | 940 | 64 | 27 | 3 | 1.9 | 3 | 0 | . | 1 |
| 1787 | 4 | 5 | 941 | 68 | 39 | 3 | 4.1 | 2 | 0 | . | 1 |
| 1788 | 4 | 5 | 942 | 67 | 44 | 2 | 3.3 | 1 | 0 | . | 1 |
| 1789 | 4 | 5 | 943 | 72 | 43 | 3 | 2.9 | 4 | 0 | . | 1 |
| 1790 | 4 | 5 | 944 | 73 | 45 | 3 | 3.4 | 2 | 0 | . | 1 |
| 1791 | 4 | 5 | 945 | 83 | 44 | 3 | 2.9 | 2 | 0 | . | 1 |
| 1792 | 4 | 5 | 946 | 79 | 38 | 2 | 3.3 | 1 | 0 | . | 1 |
| 1793 | 4 | 5 | 947 | 89 | 36 | 3 | 2.8 | 1 | 0 | . | 1 |
| 1794 | 4 | 5 | 948 | 96 | 31 | 2 | 4.2 | 1 | 0 | . | 1 |
| 1795 | 4 | 5 | 949 | 99 | 36 | 3 | 3.4 | 1 | 0 | . | 1 |
| 1796 | 4 | 5 | 950 | 89 | 42 | 3 | 2.2 | 3 | 0 | . | 1 |
| 1797 | 4 | 5 | 951 | 93 | 46 | 2 | 7.1 | 3 | 0 | . | 1 |
| 1798 | 4 | 5 | 952 | 8 | 47 | 3 | 1.4 | 3 | 0 | . | 1 |
| 1799 | 4 | 5 | 953 | 3 | 55 | 3 | 1.8 | 2 | 0 | . | 1 |
| 1800 | 4 | 5 | 954 | 4 | 60 | 3 | 2.6 | 1 | 0 | . | 1 |

| OBS | BLOCK | PLOT | TAG | EAST | NORTH | CROWN | DBH90 | RANK | GRD_TREE | GIRDLE | TREAT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1801 | 4 | 5 | 955 | 1 | 65 | 3 | 3.4 | 3 | 0 | . | 1 |
| 1802 | 4 | 5 | 956 | 10 | 63 | 3 | 1.5 | 2 | 0 | . | 1 |
| 1803 | 4 | 5 | 957 | 9 | 57 | 3 | 1.8 | 3 | 0 | . | 1 |
| 1804 | 4 | 5 | 958 | 23 | 41 | 3 | 1.2 | 2 | 0 | . | 1 |
| 1805 | 4 | 5 | 959 | 20 | 46 | 3 | 2.0 | 1 | 0 | . | 1 |
| 1806 | 4 | 5 | 960 | 20 | 50 | 3 | 2.7 | 2 | 0 | . | 1 |
| 1807 | 4 | 5 | 961 | 20 | 61 | 3 | 2.4 | 1 | 0 | . | 1 |
| 1808 | 4 | 5 | 962 | 24 | 66 | 2 | 4.0 | 1 | 0 | . | 1 |
| 1809 | 4 | 5 | 963 | 31 | 65 | 3 | 1.9 | 3 | 0 | . | 1 |
| 1810 | 4 | 5 | 964 | 29 | 59 | 3 | 1.7 | 2 | 0 | . | 1 |
| 1811 | 4 | 5 | 965 | 18 | 46 | 3 | 1.8 | 2 | 0 | . | 1 |
| 1812 | 4 | 5 | 966 | 30 | 49 | 3 | 2.5 | 3 | 0 | . | 1 |
| 1813 | 4 | 5 | 967 | 33 | 45 | 2 | 4.3 | 1 | 0 | . | 1 |
| 1814 | 4 | 5 | 968 | 41 | 43 | 3 | 2.9 | 3 | 0 | . | 1 |
| 1815 | 4 | 5 | 969 | 45 | 40 | 3 | 2.9 | 1 | 0 | . | 1 |
| 1816 | 4 | 5 | 970 | 43 | 48 | 3 | 2.5 | 3 | 0 | . | 1 |
| 1817 | 4 | 5 | 971 | 41 | 52 | 3 | 2.1 | 1 | 0 | . | 1 |
| 1818 | 4 | 5 | 972 | 45 | 58 | 3 | 1.8 | 2 | 0 | . | 1 |
| 1819 | 4 | 5 | 973 | 45 | 65 | 3 | 3.1 | 1 | 0 | . | 1 |
| 1820 | 4 | 5 | 974 | 48 | 59 | 3 | 2.0 | 3 | 0 | . | 1 |
| 1821 | 4 | 5 | 975 | 53 | 59 | 3 | 1.7 | 2 | 0 | . | 1 |
| 1822 | 4 | 5 | 976 | 56 | 53 | 3 | 1.4 | 3 | 0 | . | 1 |
| 1823 | 4 | 5 | 977 | 55 | 56 | 3 | 1.9 | 2 | 0 | . | 1 |
| 1824 | 4 | 5 | 978 | 54 | 61 | 3 | 1.8 | 2 | 0 | . | 1 |
| 1825 | 4 | 5 | 979 | 52 | 66 | 3 | 1.9 | 2 | 0 | . | 1 |
| 1826 | 4 | 5 | 980 | 56 | 62 | 3 | 1.3 | 3 | 0 | . | 1 |
| 1827 | 4 | 5 | 981 | 64 | 61 | 3 | 1.5 | 2 | 0 | . | 1 |
| 1828 | 4 | 5 | 982 | 61 | 56 | 3 | 2.8 | 1 | 0 | . | 1 |
| 1829 | 4 | 5 | 983 | 65 | 52 | 3 | 2.9 | 1 | 0 | . | 1 |
| 1830 | 4 | 5 | 984 | 60 | 51 | 3 | 1.8 | 3 | 0 | . | 1 |
| 1831 | 4 | 5 | 985 | 62 | 53 | 3 | 3.0 | 1 | 0 | . | 1 |
| 1832 | 4 | 5 | 986 | 62 | 49 | 3 | 3.1 | 3 | 0 | . | 1 |
| 1833 | 4 | 5 | 987 | 68 | 57 | 3 | 2.5 | 1 | 0 | . | 1 |
| 1834 | 4 | 5 | 988 | 69 | 59 | 3 | 1.7 | 2 | 0 | . | 1 |
| 1835 | 4 | 5 | 989 | 74 | 61 | 3 | 2.0 | 3 | 0 | . | 1 |
| 1836 | 4 | 5 | 990 | 72 | 48 | 3 | 1.7 | 3 | 0 | . | 1 |
| 1837 | 4 | 5 | 991 | 75 | 47 | 3 | 2.3 | 1 | 0 | . | 1 |
| 1838 | 4 | 5 | 992 | 77 | 41 | 3 | 2.8 | 1 | 0 | . | 1 |
| 1839 | 4 | 5 | 993 | 81 | 61 | 3 | 3.0 | 1 | 0 | . | 1 |
| 1840 | 4 | 5 | 994 | 80 | 64 | 3 | 1.4 | 4 | 0 | . | 1 |
| 1841 | 4 | 5 | 995 | 94 | 52 | 3 | 1.5 | 4 | 0 | . | 1 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 6.9 | 1.30 | 2.10 | 0.35 | 0.15 | 40 | 17 | 40 |
| 2 | 1 | 1 | 2 | 7.0 | 0.75 | 2.35 | 0.20 | 0.10 | 41 | 11 | 41 |
| 3 | 1 | 1 | 3 | 5.9 | 1.35 | 1.70 | 0.20 | 0.10 | 39 | 13 | 39 |
| 4 | 1 | 1 | 4 | 6.4 | 0.70 | 2.30 | 0.25 | 0.15 | 38 | 12 | 38 |
| 5 | 1 | 1 | 8 | 7.5 | 2.00 | 1.20 | 0.20 | 0.10 | 42 | 16 | 42 |
| 6 | 1 | 1 | 9 | 7.4 | 1.65 | 1.60 | 0.25 | 0.15 | 40 | 10 | 40 |
| 7 | 1 | 1 | 10 | 6.6 | 1.95 | 1.05 | 0.30 | 0.15 | 38 | 13 | 38 |
| 8 | 1 | 1 | 11 | 8.4 | 1.80 | 2.05 | 0.40 | 0.20 | 41 | 9 | 41 |
| 9 | 1 | 1 | 14 | 6.5 | 1.15 | 1.30 | 0.45 | 0.20 | 35 | 11 | 35 |
| 10 | 1 | 1 | 17 | 7.4 | 2.00 | 1.35 | 0.40 | 0.20 | 41 | 10 | 41 |
| 11 | 1 | 1 | 18 | 6.9 | 2.05 | 1.35 | 0.25 | 0.15 | 42 | 11 | 42 |
| 12 | 1 | 1 | 19 | 8.5 | 1.65 | 2.15 | 0.35 | 0.15 | 45 | 8 | 45 |
| 13 | 1 | 1 | 21 | 6.4 | 1.85 | 0.95 | 0.25 | 0.15 | 36 | 11 | 36 |
| 14 | 1 | 1 | 22 | 9.4 | 2.65 | 1.30 | 0.45 | 0.25 | 44 | 8 | 44 |
| 15 | 1 | 1 | 23 | 5.9 | 1.00 | 1.80 | 0.20 | 0.10 | 38 | 9 | 38 |
| 16 | 1 | 1 | 24 | 8.4 | 2.25 | 1.60 | 0.30 | 0.15 | 41 | 26 | 41 |
| 17 | 1 | 1 | 25 | 9.2 | 2.60 | 1.45 | 0.20 | 0.10 | 51 | 12 | 51 |
| 18 | 1 | 1 | 26 | 7.4 | 2.10 | 1.55 | 0.30 | 0.15 | 40 | 9 | 40 |
| 19 | 1 | 1 | 27 | 8.4 | 1.55 | 2.05 | 0.25 | 0.10 | 43 | 17 | 43 |
| 20 | 1 | 1 | 29 | 8.0 | 2.60 | 1.50 | 0.35 | 0.20 | 45 | 13 | 45 |
| 21 | 1 | 1 | 30 | 5.4 | 1.25 | 1.10 | 0.10 | 0.05 | 38 | 11 | 38 |
| 22 | 1 | 1 | 32 | 7.5 | 1.35 | 2.15 | 0.30 | 0.15 | 43 | 21 | 43 |
| 23 | 1 | 1 | 33 | 7.0 | 1.40 | 1.70 | 0.25 | 0.15 | 38 | 11 | 38 |
| 24 | 1 | 1 | 34 | 6.4 | 1.35 | 1.35 | 0.20 | 0.10 | 40 | 9 | 40 |
| 25 | 1 | 1 | 35 | 7.0 | 1.00 | 1.40 | 0.20 | 0.10 | 41 | 29 | 41 |
| 26 | 1 | 1 | 38 | 5.7 | 1.05 | 1.60 | 0.20 | 0.10 | 36 | 12 | 36 |
| 27 | 1 | 1 | 39 | 6.8 | 1.80 | 1.90 | 0.20 | 0.10 | 41 | 21 | 41 |
| 28 | 1 | 1 | 40 | 6.4 | 1.15 | 1.75 | 0.20 | 0.10 | 38 | 15 | 38 |
| 29 | 1 | 1 | 41 | 6.5 | 1.65 | 1.50 | 0.20 | 0.10 | 39 | 19 | 39 |
| 30 | 1 | 1 | 42 | 6.8 | 2.00 | 1.45 | 0.30 | 0.15 | 39 | 12 | 39 |
| 31 | 1 | 1 | 43 | 7.4 | 2.35 | 1.60 | 0.25 | 0.15 | 44 | 13 | 44 |
| 32 | 1 | 1 | 44 | 6.4 | 1.75 | 1.30 | 0.15 | 0.10 | 40 | 21 | 40 |
| 33 | 1 | 1 | 45 | 6.6 | 1.50 | 1.35 | 0.20 | 0.10 | 40 | 19 | 40 |
| 34 | 1 | 1 | 46 | 7.2 | 2.25 | 1.45 | 0.25 | 0.10 | 40 | 9 | 40 |
| 35 | 1 | 1 | 47 | 7.5 | 1.85 | 1.35 | 0.20 | 0.10 | 41 | 20 | 41 |
| 36 | 1 | 1 | 48 | 7.0 | 1.20 | 2.05 | 0.20 | 0.10 | 39 | 23 | 39 |
| 37 | 1 | 1 | 50 | 7.5 | 2.20 | 1.65 | 0.20 | 0.10 | 43 | 22 | 43 |
| 38 | 1 | 1 | 52 | 7.3 | 1.50 | 1.75 | 0.30 | 0.15 | 36 | 14 | 36 |
| 39 | 1 | 1 | 54 | 5.7 | 1.35 | 1.10 | 0.20 | 0.10 | 40 | 17 | 40 |
| 40 | 1 | 1 | 55 | 5.9 | 2.05 | 1.10 | 0.20 | 0.10 | 36 | 17 | 36 |
| 41 | 1 | 1 | 57 | 6.5 | 1.50 | 1.60 | 0.20 | 0.10 | 36 | 12 | 36 |
| 42 | 1 | 1 | 58 | 8.0 | 2.60 | 2.00 | 0.35 | 0.20 | 42 | 18 | 42 |
| 43 | 1 | 1 | 59 | 8.8 | 3.50 | 1.00 | 0.30 | 0.15 | 43 | 7 | 43 |
| 44 | 1 | 1 | 60 | 7.5 | 2.10 | 1.35 | 0.35 | 0.15 | 42 | 23 | 42 |
| 45 | 1 | 1 | 61 | 7.4 | 2.30 | 1.25 | 0.25 | 0.10 | 40 | 9 | 40 |
| 46 | 1 | 1 | 62 | 7.2 | 2.00 | 1.45 | 0.15 | 0.10 | 40 | 8 | 40 |
| 47 | 1 | 1 | 64 | 7.6 | 2.75 | 0.95 | 0.20 | 0.10 | 40 | 15 | 40 |
| 48 | 1 | 1 | 65 | 5.4 | 1.20 | 1.05 | 0.20 | 0.10 | 38 | 12 | 38 |
| 49 | 1 | 1 | 66 | 6.9 | 2.05 | 1.95 | 0.30 | 0.15 | 42 | 10 | 42 |
| 50 | 1 | 1 | 67 | 9.0 | 2.20 | 1.90 | 0.45 | 0.20 | 47 | 23 | 47 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 51 | 1 | 1 | 70 | 7.1 | 1.60 | 2.10 | 0.30 | 0.15 | 41 | 13 | 41 |
| 52 | 1 | 1 | 72 | 7.1 | 1.60 | 1.85 | 0.25 | 0.10 | 38 | 22 | 38 |
| 53 | 1 | 2 | 73 | 9.0 | 2.40 | 1.65 | 0.25 | 0.15 | 40 | 22 | 40 |
| 54 | 1 | 2 | 75 | 7.7 | 2.60 | 1.45 | 0.30 | 0.15 | 42 | 26 | 42 |
| 55 | 1 | 2 | 76 | 7.6 | 1.85 | 1.25 | 0.30 | 0.15 | 41 | 16 | 41 |
| 56 | 1 | 2 | 77 | 7.9 | 1.75 | 1.30 | 0.25 | 0.15 | 45 | 22 | 45 |
| 57 | 1 | 2 | 79 | 7.2 | 1.90 | 1.60 | 0.35 | 0.15 | 38 | 17 | 38 |
| 58 | 1 | 2 | 80 | 7.1 | 1.05 | 1.45 | 0.30 | 0.15 | 42 | 16 | 42 |
| 59 | 1 | 2 | 82 | 8.5 | 3.15 | 1.35 | 0.40 | 0.20 | 44 | 22 | 44 |
| 60 | 1 | 2 | 83 | 7.5 | 1.80 | 1.50 | 0.20 | 0.10 | 42 | 16 | 42 |
| 61 | 1 | 2 | 84 | 7.0 | 1.50 | 1.50 | 0.25 | 0.10 | 43 | 15 | 43 |
| 62 | 1 | 2 | 86 | 6.5 | 1.15 | 1.10 | 0.25 | 0.10 | 38 | 26 | 38 |
| 63 | 1 | 2 | 87 | 6.8 | 1.25 | 1.45 | 0.25 | 0.10 | 40 | 17 | 40 |
| 64 | 1 | 2 | 89 | 6.4 | 1.90 | 1.15 | 0.40 | 0.20 | 39 | 13 | 39 |
| 65 | 1 | 2 | 90 | 6.5 | 1.50 | 1.25 | 0.20 | 0.10 | 38 | 5 | 38 |
| 66 | 1 | 2 | 92 | 7.5 | 1.35 | 1.20 | 0.30 | 0.15 | 40 | 11 | 40 |
| 67 | 1 | 2 | 94 | 6.5 | 1.85 | 0.95 | 0.20 | 0.10 | 40 | 21 | 40 |
| 68 | 1 | 2 | 95 | 7.2 | 1.70 | 1.10 | 0.30 | 0.20 | 39 | 18 | 39 |
| 69 | 1 | 2 | 96 | 6.9 | 1.55 | 1.15 | 0.25 | 0.10 | 38 | 10 | 38 |
| 70 | 1 | 2 | 98 | 6.1 | 1.80 | 1.10 | 0.25 | 0.10 | 33 | 14 | 33 |
| 71 | 1 | 2 | 99 | 8.0 | 1.55 | 1.45 | 0.25 | 0.15 | 39 | 13 | 39 |
| 72 | 1 | 2 | 101 | 7.1 | 1.50 | 1.60 | 0.30 | 0.15 | 40 | 11 | 40 |
| 73 | 1 | 2 | 102 | 7.1 | 1.95 | 1.30 | 0.25 | 0.10 | 37 | 19 | 37 |
| 74 | 1 | 2 | 104 | 6.2 | 1.80 | 0.90 | 0.20 | 0.10 | 34 | 18 | 34 |
| 75 | 1 | 2 | 106 | 6.4 | 1.20 | 1.40 | 0.30 | 0.15 | 40 | 18 | 40 |
| 76 | 1 | 2 | 107 | 7.2 | 2.10 | 2.00 | 0.35 | 0.15 | 45 | 17 | 45 |
| 77 | 1 | 2 | 110 | 8.0 | 1.85 | 1.25 | 0.25 | 0.10 | 39 | 21 | 39 |
| 78 | 1 | 2 | 112 | 8.0 | 1.40 | 1.55 | 0.30 | 0.15 | 45 | 22 | 45 |
| 79 | 1 | 2 | 113 | 6.1 | 1.15 | 1.00 | 0.30 | 0.15 | 40 | 25 | 40 |
| 80 | 1 | 2 | 115 | 7.4 | 1.65 | 1.30 | 0.30 | 0.15 | 42 | 20 | 42 |
| 81 | 1 | 2 | 116 | 7.3 | 1.40 | 1.30 | 0.25 | 0.10 | 37 | 6 | 37 |
| 82 | 1 | 2 | 117 | 8.6 | 1.70 | 1.45 | 0.25 | 0.10 | 46 | 20 | 46 |
| 83 | 1 | 2 | 118 | 6.3 | 1.20 | 1.25 | 0.20 | 0.10 | 35 | 8 | 35 |
| 84 | 1 | 2 | 120 | 7.6 | 1.25 | 1.50 | 0.25 | 0.10 | 43 | 8 | 43 |
| 85 | 1 | 2 | 121 | 6.9 | 2.50 | 1.00 | 0.20 | 0.10 | 34 | 16 | 34 |
| 86 | 1 | 2 | 124 | 7.4 | 1.80 | 1.65 | 0.45 | 0.25 | 36 | 14 | 36 |
| 87 | 1 | 2 | 126 | 6.4 | 1.40 | 1.20 | 0.20 | 0.10 | 42 | 8 | 42 |
| 88 | 1 | 2 | 128 | 6.4 | 1.20 | 1.35 | 0.30 | 0.15 | 36 | 16 | 36 |
| 89 | 1 | 2 | 131 | 6.4 | 1.65 | 1.60 | 0.35 | 0.15 | 40 | 20 | 40 |
| 90 | 1 | 2 | 133 | 8.1 | 1.40 | 1.90 | 0.25 | 0.10 | 41 | 20 | 41 |
| 91 | 1 | 2 | 135 | 6.6 | 1.50 | 1.50 | 0.25 | 0.10 | 39 | 10 | 39 |
| 92 | 1 | 2 | 136 | 6.3 | 1.05 | 1.10 | 0.25 | 0.10 | 35 | 19 | 35 |
| 93 | 1 | 2 | 137 | 7.5 | 1.30 | 1.30 | 0.25 | 0.10 | 46 | 10 | 46 |
| 94 | 1 | 2 | 140 | 5.9 | 1.00 | 1.15 | 0.15 | 0.10 | 35 | 8 | 35 |
| 95 | 1 | 2 | 141 | 7.0 | 2.00 | 1.30 | 0.25 | 0.10 | 34 | 16 | 34 |
| 96 | 1 | 2 | 143 | 6.3 | 1.00 | 1.25 | 0.20 | 0.10 | 35 | 6 | 35 |
| 97 | 1 | 2 | 145 | 7.4 | 1.80 | 1.60 | 0.30 | 0.15 | 38 | 7 | 38 |
| 98 | 1 | 2 | 147 | 6.7 | 1.30 | 1.25 | 0.20 | 0.10 | 40 | 8 | 40 |
| 99 | 1 | 2 | 148 | 8.0 | 1.85 | 1.50 | 0.20 | 0.10 | 47 | 20 | 47 |
| 100 | 1 | 2 | 150 | 7.2 | 1.80 | 1.60 | 0.25 | 0.10 | 38 | 10 | 38 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 101 | 1 | 2 | 152 | 6.9 | 1.55 | 1.25 | 0.20 | 0.10 | 41 | 13 | 41 |
| 102 | 1 | 2 | 154 | 6.5 | 1.20 | 0.90 | 0.25 | 0.10 | 35 | 12 | 35 |
| 103 | 1 | 2 | 155 | 7.9 | 2.00 | 1.40 | 0.30 | 0.15 | 43 | 14 | 43 |
| 104 | 1 | 2 | 157 | 6.7 | 1.65 | 1.50 | 0.25 | 0.10 | 37 | 15 | 37 |
| 105 | 1 | 2 | 158 | 6.8 | 1.25 | 1.35 | 0.25 | 0.10 | 37 | 16 | 37 |
| 106 | 1 | 2 | 159 | 6.4 | 1.60 | 1.00 | 0.20 | 0.10 | 34 | 16 | 34 |
| 107 | 1 | 2 | 161 | 6.7 | 1.50 | 0.70 | 0.20 | 0.10 | 37 | 17 | 37 |
| 108 | 1 | 3 | 163 | 6.4 | 1.85 | 1.30 | 0.20 | 0.10 | 35 | 17 | 35 |
| 109 | 1 | 3 | 164 | 7.0 | 2.25 | 1.50 | 0.40 | 0.20 | 39 | 16 | 39 |
| 110 | 1 | 3 | 167 | 7.6 | 1.90 | 1.95 | 0.25 | 0.10 | 40 | 18 | 40 |
| 111 | 1 | 3 | 168 | 4.7 | 1.10 | 1.35 | 0.20 | 0.10 | 33 | 17 | 33 |
| 112 | 1 | 3 | 169 | 5.3 | 1.80 | 1.15 | 0.25 | 0.15 | 34 | 14 | 34 |
| 113 | 1. | 3 | 170 | 6.3 | 1.35 | 0.95 | 0.20 | 0.10 | 34 | 15 | 34 |
| 114 | 1 | 3 | 171 | 5.0 | 1.10 | 0.70 | 0.15 | 0.10 | 31 | 7 | 31 |
| 115 | 1 | 3 | 172 | 6.5 | 1.20 | 1.65 | 0.25 | 0.10 | 34 | 6 | 34 |
| 116 | 1 | 3 | 173 | 5.5 | 1.10 | 1.05 | 0.20 | 0.10 | 41 | 21 | 41 |
| 117 | 1 | 3 | 174 | 6.1 | 1.25 | 1.10 | 0.15 | 0.10 | 37 | 23 | 37 |
| 118 | 1 | 3 | 175 | 4.1 | 1.30 | 0.90 | 0.20 | 0.10 | 32 | 16 | 32 |
| 119 | 1 | 3 | 176 | 5.1 | 1.40 | 0.90 | 0.20 | 0.10 | 30 | 17 | 30 |
| 120 | 1 | 3 | 177 | 5.4 | 1.25 | 1.15 | 0.25 | 0.15 | 30 | 13 | 30 |
| 121 | 1 | 3 | 178 | 5.0 | 1.05 | 0.95 | 0.10 | 0.05 | 33 | 5 | 33 |
| 122 | 1 | 3 | 180 | 6.6 | 1.40 | 1.00 | 0.15 | 0.10 | 38 | 19 | 38 |
| 123 | 1 | 3 | 181 | 5.4 | 1.10 | 0.80 | 0.10 | 0.05 | 32 | 21 | 32 |
| 124 | 1 | 3 | 182 | 6.5 | 1.30 | 1.60 | 0.20 | 0.10 | 35 | 6 | 35 |
| 125 | 1 | 3 | 184 | 5.7 | 1.90 | 1.40 | 0.35 | 0.20 | 34 | 16 | 34 |
| 126 | 1 | 3 | 185 | 6.4 | 1.60 | 1.15 | 0.20 | 0.10 | 32 | 13 | 32 |
| 127 | 1 | 3 | 186 | 6.5 | 1.20 | 1.75 | 0.20 | 0.10 | 38 | 21 | 38 |
| 128 | 1 | 3 | 187 | 5.9 | 1.55 | 1.10 | 0.20 | 0.10 | 28 | 11 | 28 |
| 129 | 1 | 3 | 188 | 5.8 | 1.15 | 1.55 | 0.20 | 0.10 | 40 | 17 | 40 |
| 130 | 1 | 3 | 189 | 7.1 | 1.85 | 1.75 | 0.35 | 0.15 | 41 | 17 | 41 |
| 131 | 1 | 3 | 192 | 6.0 | 1.85 | 1.65 | 0.30 | 0.15 | 36 | 15 | 36 |
| 132 | 1 | 3 | 193 | 4.0 | 1.20 | 0.85 | 0.20 | 0.10 | 34 | 14 | 34 |
| 133 | 1 | 3 | 194 | 6.4 | 1.30 | 1.10 | 0.20 | 0.10 | 37 | 16 | 37 |
| 134 | 1 | 3 | 195 | 4.1 | 1.40 | 0.80 | 0.15 | 0.05 | 30 | 15 | 30 |
| 135 | 1 | 3 | 196 | 8.6 | 1.55 | 1.85 | 0.30 | 0.15 | 38 | 15 | 38 |
| 136 | 1 | 3 | 197 | 9.0 | 2.45 | 1.25 | 0.20 | 0.10 | 49 | 13 | 49 |
| 137 | 1 | 3 | 198 | 8.1 | 1.30 | 1.90 | 0.25 | 0.10 | 43 | 6 | 43 |
| 138 | 1 | 3 | 199 | 6.5 | 1.45 | 1.05 | 0.20 | 0.10 | 36 | 6 | 36 |
| 139 | 1 | 3 | 201 | 7.2 | 1.50 | 1.55 | 0.20 | 0.10 | 41 | 20 | 41 |
| 140 | 1 | 3 | 202 | 7.4 | 1.90 | 1.35 | 0.20 | 0.10 | 41 | 20 | 41 |
| 141 | 1 | 3 | 203 | 6.0 | 1.30 | 1.20 | 0.20 | 0.10 | 34 | 20 | 34 |
| 142 | 1 | 3 | 205 | 6.8 | 1.05 | 2.10 | 0.30 | 0.15 | 40 | 22 | 40 |
| 143 | 1 | 3 | 208 | 6.3 | 1.30 | 1.30 | 0.20 | 0.10 | 39 | 16 | 39 |
| 144 | 1 | 3 | 209 | 5.9 | 1.20 | 1.20 | 0.20 | 0.10 | 37 | 20 | 37 |
| 145 | 1 | 3 | 210 | 6.3 | 1.40 | 1.30 | 0.15 | 0.05 | 41 | 18 | 41 |
| 146 | 1 | 3 | 211 | 6.9 | 1.60 | 1.30 | 0.20 | 0.10 | 37 | 15 | 37 |
| 147 | 1 | 3 | 212 | 6.4 | 1.00 | 1.85 | 0.30 | 0.15 | 43 | 21 | 43 |
| 148 | 1 | 3 | 214 | 7.5 | 1.75 | 1.95 | 0.30 | 0.15 | 45 | 16 | 45 |
| 149 | 1 | 3 | 215 | 5.3 | 1.75 | 1.40 | 0.30 | 0.15 | 37 | 24 | 37 |
| 150 | 1 | 3 | 216 | 5.3 | 1.00 | 1.20 | 0.20 | 0.10 | 35 | 19 | 35 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 151 | 1 | 3 | 217 | 6.2 | 1.75 | 1.25 | 0.15 | 0.05 | 36 | 20 | 36 |
| 152 | 1 | 3 | 218 | 7.3 | 1.90 | 1.25 | 0.30 | 0.15 | 40 | 17 | 40 |
| 153 | 1 | 3 | 219 | 4.0 | 1.20 | 0.90 | 0.20 | 0.10 | 40 | 21 | 40 |
| 154 | 1 | 3 | 220 | 5.7 | 0.85 | 1.10 | 0.15 | 0.05 | 39 | 16 | 39 |
| 155 | 1 | 3 | 221 | 6.4 | 1.55 | 1.55 | 0.20 | 0.10 | 38 | 13 | 38 |
| 156 | 1 | 3 | 222 | 5.9 | 1.40 | 1.10 | 0.25 | 0.10 | 36 | 14 | 36 |
| 157 | 1 | 3 | 223 | 5.4 | 1.10 | 1.15 | 0.20 | 0.10 | 37 | 21 | 37 |
| 158 | 1 | 3 | 224 | 5.1 | 1.05 | 0.90 | 0.20 | 0.10 | 40 | 8 | 40 |
| 159 | 1 | 3 | 225 | 6.8 | 1.80 | 1.20 | 0.20 | 0.10 | 39 | 9 | 39 |
| 160 | 1 | 3 | 226 | 6.3 | 1.50 | 1.00 | 0.20 | 0.10 | 38 | 14 | 38 |
| 161 | 1 | 3 | 227 | 6.9 | 1.30 | 1.00 | 0.20 | 0.10 | 43 | 23 | 43 |
| 162 | 1 | 3 | 228 | 5.4 | 1.30 | 0.95 | 0.25 | 0.10 | 36 | 19 | 36 |
| 163 | 1 | 3 | 229 | 6.6 | 1.00 | 1.30 | 0.30 | 0.15 | 39 | 10 | 39 |
| 164 | 1 | 3 | 230 | 7.3 | 1.00 | 2.15 | 0.20 | 0.10 | 42 | 19 | 42 |
| 165 | 1 | 3 | 231 | 4.0 | 1.00 | 0.80 | 0.20 | 0.10 | 30 | 5 | 30 |
| 166 | 1 | 3 | 232 | 6.5 | 1.10 | 1.55 | 0.20 | 0.10 | 41 | 22 | 41 |
| 167 | 1 | 3 | 233 | 5.2 | 1.20 | 0.85 | 0.20 | 0.10 | 38 | 17 | 38 |
| 168 | 1 | 3 | 234 | 6.3 | 1.95 | 0.80 | 0.25 | 0.10 | 42 | 18 | 42 |
| 169 | 1 | 3 | 235 | 7.1 | 1.35 | 2.00 | 0.30 | 0.15 | 42 | 16 | 42 |
| 170 | 1 | 4 | 236 | 7.7 | 2.00 | 1.05 | 0.20 | 0.10 | 41 | 22 | 41 |
| 171 | 1 | 4 | 237 | 6.5 | 1.40 | 1.60 | 0.20 | 0.10 | 38 | 21 | 38 |
| 172 | 1 | 4 | 238 | 7.8 | 1.15 | 1.70 | 0.20 | 0.10 | 42 | 19 | 42 |
| 173 | 1 | 4 | 239 | 6.2 | 1.45 | 1.20 | 0.20 | 0.10 | 40 | 11 | 40 |
| 174 | 1 | 4 | 240 | 7.3 | 1.60 | 1.00 | 0.25 | 0.10 | 49 | 21 | 49 |
| 175 | 1 | 4 | 241 | 7.5 | 1.20 | 1.90 | 0.25 | 0.15 | 44 | 16 | 44 |
| 176 | 1 | 4 | 242 | 7.8 | 1.50 | 1.60 | 0.25 | 0.10 | 42 | 21 | 42 |
| 177 | 1 | 4 | 243 | 6.5 | 1.30 | 1.60 | 0.20 | 0.10 | 42 | 32 | 42 |
| 178 | 1 | 4 | 244 | 6.9 | 1.35 | 1.55 | 0.20 | 0.10 | 39 | 18 | 39 |
| 179 | 1 | 4 | 245 | 6.9 | 1.65 | 1.05 | 0.20 | 0.10 | 44 | 22 | 44 |
| 180 | 1 | 4 | 246 | 6.8 | 1.10 | 1.95 | 0.20 | 0.10 | 48 | 27 | 48 |
| 181 | 1 | 4 | 247 | 6.4 | 1.70 | 1.35 | 0.20 | 0.10 | 44 | 25 | 44 |
| 182 | 1 | 4 | 248 | 7.6 | 1.20 | 2.15 | 0.30 | 0.15 | 46 | 20 | 46 |
| 183 | 1 | 4 | 249 | 6.9 | 1.35 | 1.75 | 0.30 | 0.15 | 43 | 20 | 43 |
| 184 | 1 | 4 | 250 | 6.0 | 1.10 | 1.60 | 0.30 | 0.15 | 39 | 10 | 39 |
| 185 | 1 | 4 | 251 | 7.3 | 1.30 | 2.30 | 0.30 | 0.15 | 44 | 23 | 44 |
| 186 | 1 | 4 | 252 | 5.9 | 1.45 | 1.30 | 0.25 | 0.15 | 38 | 23 | 38 |
| 187 | 1 | 4 | 253 | 7.8 | 1.70 | 1.70 | 0.40 | 0.20 | 44 | 16 | 44 |
| 188 | 1 | 4 | 254 | 7.1 | 2.35 | 1.70 | 0.30 | 0.15 | 40 | 17 | 40 |
| 189 | 1 | 4 | 255 | 6.4 | 1.80 | 1.15 | 0.20 | 0.10 | 40 | 12 | 40 |
| 190 | 1 | 4 | 256 | 6.4 | 2.55 | 1.00 | 0.25 | 0.10 | 45 | 23 | 45 |
| 191 | 1 | 4 | 257 | 6.6 | 1.50 | 1.25 | 0.25 | 0.10 | 40 | 19 | 40 |
| 192 | 1 | 4 | 258 | 4.7 | 1.00 | 0.90 | 0.30 | 0.15 | 34 | 20 | 34 |
| 193 | 1 | 4 | 259 | 5.0 | 1.00 | 1.05 | 0.20 | 0.10 | 36 | 19 | 36 |
| 194 | 1 | 4 | 260 | 5.5 | 1.00 | 1.70 | 0.30 | 0.15 | 41 | 21 | 41 |
| 195 | 1 | 4 | 261 | 7.7 | 0.95 | 2.25 | 0.30 | 0.15 | 45 | 7 | 45 |
| 196 | 1 | 4 | 262 | 5.8 | 1.60 | 1.35 | 0.20 | 0.10 | 37 | 20 | 37 |
| 197 | 1 | 4 | 263 | 5.8 | 1.40 | 1.45 | 0.30 | 0.10 | 40 | 25 | 40 |
| 198 | 1 | 4 | 264 | 8.0 | 2.30 | 1.45 | 0.30 | 0.15 | 42 | 26 | 42 |
| 199 | 1 | 4 | 265 | 5.8 | 1.00 | 1.30 | 0.25 | 0.10 | 38 | 9 | 38 |
| 200 | 1 | 4 | 266 | 6.7 | 1.10 | 1.45 | 0.20 | 0.10 | 40 | 21 | 40 |
| 201 | 1 | 4 | 267 | 7.4 | 1.50 | 1.80 | 0.30 | 0.15 | 46 | 16 | 46 |
| 202 | 1 | 4 | 268 | 5.2 | 1.15 | 1.35 | 0.25 | 0.10 | 38 | 15 | 38 |
| 203 | 1 | 4 | 269 | 6.2 | 1.90 | 1.15 | 0.20 | 0.10 | 40 | 16 | 40 |
| 204 | 1 | 4 | 270 | 5.9 | 1.50 | 1.50 | 0.25 | 0.10 | 38 | 21 | 38 |
| 205 | 1 | 4 | 271 | 6.1 | 1.65 | 1.05 | 0.20 | 0.10 | 39 | 17 | 39 |
| 206 | 1 | 4 | 272 | 3.7 | 0.90 | 0.85 | 0.20 | 0.10 | 35 | 20 | 35 |
| 207 | 1 | 4 | 273 | 8.2 | 1.90 | 1.50 | 0.35 | 0.20 | 42 | 15 | 42 |
| 208 | 1 | 4 | 274 | 6.7 | 1.50 | 1.50 | 0.20 | 0.10 | 40 | 23 | 40 |
| 209 | 1 | 4 | 275 | 7.6 | 1.60 | 1.90 | 0.30 | 0.15 | 43 | 21 | 43 |
| 210 | 1 | 4 | 276 | 7.8 | 2.00 | 1.60 | 0.30 | 0.15 | 39 | 18 | 39 |
| 211 | 1 | 4 | 277 | 6.8 | 1.50 | 1.50 | 0.30 | 0.15 | 43 | 17 | 43 |
| 212 | 1 | 4 | 278 | 7.4 | 1.25 | 1.60 | 0.20 | 0.10 | 42 | 20 | 42 |
| 213 | 1 | 4 | 279 | 9.2 | 2.15 | 1.65 | 0.20 | 0.10 | 40 | 21 | 40 |
| 214 | 1 | 4 | 280 | 6.3 | 1.40 | 1.40 | 0.25 | 0.15 | 42 | 12 | 42 |
| 215 | 1 | 4 | 281 | 8.7 | 2.70 | 0.90 | 0.20 | 0.10 | 49 | 21 | 49 |
| 216 | 1 | 4 | 282 | 7.3 | 1.50 | 1.50 | 0.25 | 0.10 | 47 | 18 | 47 |
| 217 | 1 | 4 | 283 | 4.4 | 1.15 | 0.80 | 0.20 | 0.10 | 35 | 13 | 35 |
| 218 | 1 | 4 | 284 | 8.7 | 2.00 | 1.85 | 0.25 | 0.10 | 44 | 7 | 44 |
| 219 | 1 | 4 | 285 | 5.5 | 1.40 | 1.35 | 0.30 | 0.15 | 41 | 20 | 41 |
| 220 | 1 | 4 | 286 | 7.3 | 1.60 | 1.20 | 0.20 | 0.10 | 41 | 19 | 41 |
| 221 | 1 | 4 | 287 | 6.0 | 1.15 | 1.20 | 0.25 | 0.10 | 40 | 23 | 40 |
| 222 | 1 | 4 | 288 | 6.1 | 1.60 | 1.30 | 0.30 | 0.15 | 39 | 7 | 39 |
| 223 | 1 | 4 | 289 | 6.5 | 0.65 | 0.70 | 0.20 | 0.10 | 38 | 11 | 38 |
| 224 | 1 | 4 | 290 | 7.8 | 2.00 | 1.10 | 0.20 | 0.10 | 44 | 23 | 44 |
| 225 | 1 | 4 | 291 | 7.3 | 1.60 | 1.50 | 0.25 | 0.10 | 43 | 18 | 43 |
| 226 | 1 | 4 | 292 | 7.7 | 1.65 | 1.30 | 0.20 | 0.10 | 44 | 5 | 44 |
| 227 | 1 | 4 | 293 | 6.8 | 1.40 | 1.30 | 0.20 | 0.10 | 40 | 8 | 40 |
| 228 | 1 | 4 | 294 | 7.4 | 1.10 | 0.70 | 0.20 | 0.10 | 41 | 16 | 41 |
| 229 | 1 | 4 | 295 | 7.4 | 1.60 | 1.80 | 0.30 | 0.15 | 44 | 20 | 44 |
| 230 | 1 | 4 | 296 | 4.0 | 1.30 | 0.60 | 0.30 | 0.15 | 34 | 15 | 34 |
| 231 | 1 | 4 | 297 | 8.7 | 2.50 | 1.10 | 0.20 | 0.10 | 44 | 19 | 44 |
| 232 | 1 | 4 | 298 | 8.3 | 1.15 | 1.70 | 0.30 | 0.15 | 39 | 13 | 39 |
| 233 | 1 | 4 | 299 | 5.6 | 1.80 | 0.80 | 0.20 | 0.10 | 38 | 20 | 38 |
| 234 | 1 | 4 | 301 | 8.5 | 1.80 | 1.90 | 0.30 | 0.15 | 47 | 23 | 47 |
| 235 | 1 | 4 | 302 | 6.6 | 1.30 | 1.45 | 0.20 | 0.10 | 39 | 21 | 39 |
| 236 | 1 | 4 | 303 | 6.3 | 0.75 | 2.05 | 0.30 | 0.15 | 39 | 15 | 39 |
| 237 | 1 | 4 | 304 | 5.7 | 1.00 | 1.60 | 0.40 | 0.20 | 41 | 14 | 41 |
| 238 | 1 | 4 | 305 | 6.9 | 1.70 | 2.20 | 0.30 | 0.15 | 38 | 8 | 38 |
| 239 | 1 | 4 | 306 | 7.2 | 1.60 | 1.00 | 0.25 | 0.10 | 41 | 18 | 41 |
| 240 | 1 | 4 | 307 | 6.4 | 1.40 | 1.30 | 0.20 | 0.10 | 40 | 18 | 40 |
| 241 | 1 | 4 | 308 | 7.2 | 2.30 | 1.30 | 0.35 | 0.15 | 47 | 28 | 47 |
| 242 | 1 | 4 | 309 | 5.6 | 1.20 | 1.00 | 0.30 | 0.15 | 37 | 19 | 37 |
| 243 | 1 | 4 | 310 | 7.2 | 1.35 | 1.75 | 0.25 | 0.10 | 40 | 10 | 40 |
| 244 | 1 | 4 | 311 | 7.8 | 2.00 | 1.45 | 0.30 | 0.15 | 44 | 12 | 44 |
| 245 | 1 | 4 | 312 | 7.0 | 1.50 | 1.10 | 0.20 | 0.10 | 45 | 27 | 45 |
| 246 | 1 | 4 | 313 | 6.0 | 1.65 | 1.20 | 0.20 | 0.10 | 42 | 18 | 42 |
| 247 | 1 | 4 | 314 | 7.9 | 1.40 | 1.90 | 0.40 | 0.20 | 49 | 19 | 49 |
| 248 | 1 | 4 | 315 | 8.2 | 1.90 | 1.45 | 0.30 | 0.15 | 47 | 8 | 47 |
| 249 | 1 | 4 | 316 | 8.1 | 2.25 | 1.25 | 0.30 | 0.15 | 46 | 27 | 46 |
| 250 | 1 | 4 | 317 | 7.7 | 2.00 | 1.20 | 0.20 | 0.10 | 44 | 22 | 44 |

Listing of  Ident (1990) + Observed (1991-97)          43
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 251 | 1 | 4 | 318 | 6.7 | 1.40 | 1.70 | 0.20 | 0.10 | 35 | 5 | 35 |
| 252 | 1 | 4 | 319 | 7.4 | 1.65 | 1.60 | 0.20 | 0.10 | 39 | 17 | 39 |
| 253 | 1 | 4 | 320 | 5.2 | 1.70 | 1.20 | 0.25 | 0.10 | 35 | 19 | 35 |
| 254 | 1 | 4 | 321 | 7.2 | 1.60 | 1.80 | 0.30 | 0.15 | 40 | 20 | 40 |
| 255 | 1 | 4 | 322 | 8.1 | 1.50 | 1.50 | 0.25 | 0.10 | 47 | 26 | 47 |
| 256 | 1 | 4 | 323 | 7.2 | 1.50 | 1.60 | 0.20 | 0.10 | 39 | 14 | 39 |
| 257 | 1 | 4 | 324 | 5.9 | 1.30 | 1.20 | 0.40 | 0.20 | 39 | 8 | 39 |
| 258 | 1 | 4 | 325 | 7.1 | 2.50 | 0.90 | 0.20 | 0.10 | 34 | 5 | 34 |
| 259 | 1 | 4 | 326 | 8.5 | 2.25 | 1.40 | 0.30 | 0.15 | 45 | 7 | 45 |
| 260 | 2 | 1 | 327 | 6.1 | 1.55 | 0.80 | 0.30 | 0.15 | 35 | 15 | 35 |
| 261 | 2 | 1 | 328 | 8.4 | 2.20 | 0.70 | 0.20 | 0.10 | 42 | 17 | 42 |
| 262 | 2 | 1 | 330 | 5.2 | 1.25 | 0.85 | 0.15 | 0.05 | 36 | 18 | 36 |
| 263 | 2 | 1 | 332 | 5.0 | 1.60 | 0.70 | 0.20 | 0.10 | 32 | 13 | 32 |
| 264 | 2 | 1 | 333 | 5.1 | 1.50 | 1.10 | 0.20 | 0.10 | 33 | 20 | 33 |
| 265 | 2 | 1 | 334 | 6.4 | 1.80 | 1.30 | 0.25 | 0.10 | 31 | 11 | 31 |
| 266 | 2 | 1 | 335 | 5.5 | 1.40 | 0.65 | 0.25 | 0.15 | 32 | 9 | 32 |
| 267 | 2 | 1 | 339 | 5.1 | 1.35 | 0.85 | 0.20 | 0.10 | 34 | 22 | 34 |
| 268 | 2 | 1 | 341 | 5.3 | 1.60 | 1.10 | 0.20 | 0.10 | 35 | 10 | 35 |
| 269 | 2 | 1 | 343 | 6.2 | 1.55 | 1.50 | 0.30 | 0.20 | 40 | 7 | 40 |
| 270 | 2 | 1 | 344 | 4.6 | 1.30 | 0.80 | 0.20 | 0.10 | 30 | 14 | 30 |
| 271 | 2 | 1 | 347 | 4.9 | 1.40 | 0.90 | 0.25 | 0.15 | 31 | 13 | 31 |
| 272 | 2 | 1 | 349 | 6.7 | 2.00 | 1.60 | 0.40 | 0.20 | 39 | 15 | 39 |
| 273 | 2 | 1 | 350 | 3.9 | 1.20 | 0.80 | 0.20 | 0.10 | 29 | 13 | 29 |
| 274 | 2 | 1 | 351 | 4.7 | 1.15 | 0.75 | 0.20 | 0.10 | 32 | 16 | 32 |
| 275 | 2 | 1 | 353 | 5.5 | 1.65 | 1.15 | 0.35 | 0.15 | 35 | 20 | 35 |
| 276 | 2 | 1 | 356 | 3.4 | 1.15 | 0.45 | 0.25 | 0.15 | 29 | 19 | 29 |
| 277 | 2 | 1 | 359 | 4.7 | 1.10 | 1.20 | 0.35 | 0.20 | 31 | 6 | 31 |
| 278 | 2 | 1 | 361 | 5.7 | 1.55 | 1.10 | 0.35 | 0.20 | 32 | 8 | 32 |
| 279 | 2 | 1 | 363 | 5.4 | 1.60 | 0.95 | 0.20 | 0.10 | 30 | 13 | 30 |
| 280 | 2 | 1 | 365 | 3.8 | 0.80 | 0.85 | 0.30 | 0.15 | 27 | 3 | 27 |
| 281 | 2 | 1 | 366 | 8.1 | 1.80 | 2.45 | 0.45 | 0.20 | 38 | 4 | 38 |
| 282 | 2 | 1 | 367 | 4.9 | 1.35 | 0.90 | 0.15 | 0.10 | 32 | 8 | 32 |
| 283 | 2 | 1 | 369 | 3.6 | 1.15 | 0.55 | 0.25 | 0.10 | 27 | 15 | 27 |
| 284 | 2 | 1 | 370 | 3.8 | 1.25 | 0.90 | 0.30 | 0.15 | 31 | 12 | 31 |
| 285 | 2 | 1 | 371 | 6.0 | 1.60 | 1.50 | 0.30 | 0.20 | 38 | 6 | 38 |
| 286 | 2 | 1 | 372 | 5.5 | 1.80 | 0.85 | 0.20 | 0.10 | 32 | 12 | 32 |
| 287 | 2 | 1 | 373 | 6.5 | 1.85 | 0.85 | 0.20 | 0.10 | 35 | 10 | 35 |
| 288 | 2 | 1 | 374 | 4.9 | 1.45 | 0.85 | 0.20 | 0.10 | 32 | 12 | 32 |
| 289 | 2 | 1 | 376 | 5.5 | 1.90 | 0.90 | 0.20 | 0.10 | 34 | 12 | 34 |
| 290 | 2 | 1 | 377 | 4.2 | 1.05 | 0.75 | 0.10 | 0.05 | 29 | 6 | 29 |
| 291 | 2 | 1 | 378 | 5.7 | 1.60 | 1.05 | 0.20 | 0.10 | 37 | 19 | 37 |
| 292 | 2 | 1 | 381 | 4.4 | 0.85 | 1.25 | 0.15 | 0.05 | 33 | 12 | 33 |
| 293 | 2 | 1 | 383 | 6.2 | 2.20 | 1.15 | 0.25 | 0.10 | 35 | 11 | 35 |
| 294 | 2 | 1 | 384 | 6.2 | 2.00 | 0.70 | 0.20 | 0.10 | 33 | 8 | 33 |
| 295 | 2 | 1 | 386 | 3.2 | 1.20 | 0.25 | 0.15 | 0.05 | 26 | 14 | 26 |
| 296 | 2 | 1 | 387 | 4.9 | 1.15 | 1.20 | 0.30 | 0.15 | 30 | 10 | 30 |
| 297 | 2 | 1 | 388 | 6.7 | 2.10 | 1.05 | 0.25 | 0.15 | 36 | 7 | 36 |
| 298 | 2 | 1 | 391 | 5.7 | 1.50 | 1.30 | 0.30 | 0.15 | 37 | 11 | 37 |
| 299 | 2 | 1 | 392 | 4.6 | 1.00 | 1.15 | 0.35 | 0.20 | 30 | 11 | 30 |
| 300 | 2 | 1 | 394 | 3.9 | 0.75 | 0.65 | 0.20 | 0.10 | 31 | 18 | 31 |

Listing of  Ident (1990) + Observed (1991-97)          44
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 301 | 2 | 1 | 396 | 4.4 | 1.10 | 0.85 | 0.15 | 0.10 | 32 | 13 | 32 |
| 302 | 2 | 1 | 398 | 4.1 | 1.75 | 1.45 | 0.20 | 0.10 | 32 | 23 | 32 |
| 303 | 2 | 1 | 399 | 3.5 | 0.75 | 0.55 | 0.10 | 0.05 | 28 | 17 | 28 |
| 304 | 2 | 1 | 400 | 5.4 | 1.65 | 1.25 | 0.25 | 0.10 | 33 | 9 | 33 |
| 305 | 2 | 1 | 401 | 6.2 | 1.65 | 1.35 | 0.40 | 0.20 | 35 | 17 | 35 |
| 306 | 2 | 1 | 403 | 6.3 | 1.95 | 1.25 | 0.20 | 0.10 | 36 | 5 | 36 |
| 307 | 2 | 1 | 406 | 7.8 | 2.00 | 1.20 | 0.20 | 0.10 | 40 | 6 | 40 |
| 308 | 2 | 1 | 407 | 4.8 | 1.00 | 1.00 | 0.10 | 0.05 | 33 | 7 | 33 |
| 309 | 2 | 1 | 408 | 6.1 | 1.95 | 1.05 | 0.35 | 0.20 | 35 | 7 | 35 |
| 310 | 2 | 1 | 411 | 8.6 | 2.70 | 1.20 | 0.25 | 0.15 | 41 | 15 | 41 |
| 311 | 2 | 1 | 414 | 6.6 | 1.60 | 1.20 | 0.25 | 0.10 | 31 | 7 | 31 |
| 312 | 2 | 1 | 415 | 6.5 | 1.70 | 1.45 | 0.35 | 0.15 | 36 | 13 | 36 |
| 313 | 2 | 1 | 416 | 7.6 | 2.05 | 1.60 | 0.20 | 0.10 | 37 | 14 | 37 |
| 314 | 2 | 1 | 420 | 7.1 | 1.55 | 1.40 | 0.30 | 0.15 | 38 | 15 | 38 |
| 315 | 2 | 1 | 422 | 6.0 | 1.45 | 1.35 | 0.20 | 0.10 | 40 | 9 | 40 |
| 316 | 2 | 1 | 425 | 7.4 | 2.30 | 1.55 | 0.35 | 0.20 | 38 | 9 | 38 |
| 317 | 2 | 1 | 427 | 6.7 | 1.65 | 1.45 | 0.35 | 0.15 | 35 | 16 | 35 |
| 318 | 2 | 1 | 428 | 3.8 | 0.90 | 0.85 | 0.10 | 0.05 | 25 | 9 | 25 |
| 319 | 2 | 1 | 429 | 4.8 | 1.45 | 1.15 | 0.35 | 0.15 | 31 | 10 | 31 |
| 320 | 2 | 1 | 430 | 6.6 | 1.90 | 1.30 | 0.20 | 0.10 | 39 | 12 | 39 |
| 321 | 2 | 1 | 431 | 3.8 | 1.35 | 0.40 | 0.10 | 0.05 | 30 | 16 | 30 |
| 322 | 2 | 1 | 433 | 6.3 | 1.80 | 0.95 | 0.10 | 0.05 | 36 | 22 | 36 |
| 323 | 2 | 1 | 434 | 7.0 | 1.80 | 1.55 | 0.30 | 0.15 | 40 | 14 | 40 |
| 324 | 2 | 1 | 435 | 8.2 | 1.40 | 1.75 | 0.35 | 0.20 | 44 | 11 | 44 |
| 325 | 2 | 1 | 436 | 6.7 | 1.70 | 0.95 | 0.30 | 0.15 | 41 | 17 | 41 |
| 326 | 2 | 1 | 439 | 6.8 | 1.80 | 1.50 | 0.30 | 0.15 | 38 | 12 | 38 |
| 327 | 2 | 1 | 440 | 6.5 | 1.90 | 1.15 | 0.25 | 0.10 | 30 | 9 | 30 |
| 328 | 2 | 1 | 442 | 4.3 | 1.15 | 1.10 | 0.30 | 0.15 | 31 | 9 | 31 |
| 329 | 2 | 1 | 443 | 6.6 | 1.70 | 1.30 | 0.25 | 0.10 | 34 | 12 | 34 |
| 330 | 2 | 1 | 444 | 5.6 | 1.55 | 1.15 | 0.20 | 0.10 | 33 | 14 | 33 |
| 331 | 2 | 1 | 445 | 6.1 | 1.55 | 0.95 | 0.20 | 0.10 | 39 | 17 | 39 |
| 332 | 2 | 1 | 447 | 7.7 | 2.70 | 1.40 | 0.20 | 0.10 | 39 | 16 | 39 |
| 333 | 2 | 1 | 449 | 4.9 | 1.50 | 0.50 | 0.10 | 0.05 | 29 | 15 | 29 |
| 334 | 2 | 1 | 450 | 5.1 | 1.20 | 0.70 | 0.20 | 0.10 | 32 | 8 | 32 |
| 335 | 2 | 1 | 453 | 4.3 | 1.50 | 0.65 | 0.25 | 0.10 | 31 | 8 | 31 |
| 336 | 2 | 1 | 454 | 6.4 | 1.30 | 1.40 | 0.25 | 0.10 | 36 | 14 | 36 |
| 337 | 2 | 1 | 455 | 5.8 | 1.40 | 1.00 | 0.20 | 0.10 | 36 | 12 | 36 |
| 338 | 2 | 1 | 456 | 7.8 | 1.95 | 1.45 | 0.25 | 0.10 | 42 | 12 | 42 |
| 339 | 2 | 1 | 457 | 7.0 | 1.65 | 1.70 | 0.45 | 0.20 | 40 | 3 | 40 |
| 340 | 2 | 1 | 458 | 4.3 | 1.30 | 1.25 | 0.25 | 0.25 | 33 | 18 | 33 |
| 341 | 2 | 1 | 461 | 6.7 | 1.45 | 1.35 | 0.40 | 0.20 | 39 | 11 | 39 |
| 342 | 2 | 1 | 462 | 7.1 | 1.70 | 1.20 | 0.20 | 0.10 | 37 | 8 | 37 |
| 343 | 2 | 1 | 464 | 3.5 | 0.75 | 0.75 | 0.20 | 0.10 | 26 | 9 | 26 |
| 344 | 2 | 1 | 465 | 8.3 | 2.00 | 1.80 | 0.35 | 0.20 | 41 | 15 | 41 |
| 345 | 2 | 1 | 467 | 3.8 | 1.05 | 0.75 | 0.25 | 0.15 | 26 | 5 | 26 |
| 346 | 2 | 1 | 468 | 5.2 | 1.00 | 0.80 | 0.15 | 0.05 | 37 | 7 | 37 |
| 347 | 2 | 1 | 470 | 5.9 | 1.55 | 0.90 | 0.30 | 0.15 | 38 | 13 | 38 |
| 348 | 2 | 2 | 475 | 4.7 | 2.05 | 0.75 | 0.25 | 0.15 | 32 | 11 | 32 |
| 349 | 2 | 2 | 476 | 5.3 | 1.50 | 0.90 | 0.20 | 0.10 | 35 | 11 | 35 |
| 350 | 2 | 2 | 477 | 4.4 | 1.50 | 0.70 | 0.20 | 0.10 | 30 | 12 | 30 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 351 | 2 | 2 | 478 | 5.9 | 1.40 | 0.90 | 0.10 | 0.05 | 36 | 9 | 36 |
| 352 | 2 | 2 | 479 | 4.1 | 1.25 | 0.85 | 0.10 | 0.05 | 32 | 18 | 32 |
| 353 | 2 | 2 | 480 | 7.8 | 2.05 | 1.00 | 0.15 | 0.10 | 40 | 6 | 40 |
| 354 | 2 | 2 | 481 | 5.5 | 1.05 | 1.00 | 0.15 | 0.05 | 34 | 14 | 34 |
| 355 | 2 | 2 | 482 | 3.7 | 1.25 | 1.00 | 0.20 | 0.10 | 30 | 13 | 30 |
| 356 | 2 | 2 | 483 | 6.6 | 1.40 | 1.00 | 0.25 | 0.15 | 37 | 16 | 37 |
| 357 | 2 | 2 | 484 | 6.0 | 1.30 | 1.00 | 0.20 | 0.10 | 35 | 22 | 35 |
| 358 | 2 | 2 | 486 | 5.3 | 1.15 | 1.40 | 0.25 | 0.10 | 33 | 7 | 33 |
| 359 | 2 | 2 | 487 | 6.6 | 2.00 | 1.45 | 0.30 | 0.10 | 39 | 15 | 39 |
| 360 | 2 | 2 | 488 | 3.9 | 1.10 | 0.55 | 0.20 | 0.10 | 30. | 20 | 30 |
| 361 | 2 | 2 | 489 | 6.7 | 2.75 | 1.10 | 0.15 | 0.05 | 38 | 2 | 38 |
| 362 | 2 | 2 | 490 | 6.5 | 2.35 | 1.40 | 0.25 | 0.15 | 38 | 16 | 38 |
| 363 | 2 | 2 | 491 | 6.0 | 1.25 | 0.95 | 0.25 | 0.10 | 37 | 12 | 37 |
| 364 | 2 | 2 | 492 | 2.9 | 0.45 | 0.65 | 0.10 | 0.05 | 31 | 18 | 31 |
| 365 | 2 | 2 | 493 | 6.4 | 1.65 | 1.00 | 0.25 | 0.15 | 40 | 7 | 40 |
| 366 | 2 | 2 | 494 | 6.4 | 1.35 | 1.20 | 0.45 | 0.25 | 47 | 15 | 47 |
| 367 | 2 | 2 | 495 | 6.0 | 1.35 | 1.75 | 0.20 | 0.10 | 41 | 12 | 41 |
| 368 | 2 | 2 | 496 | 6.4 | 2.20 | 0.75 | 0.25 | 0.15 | 42 | 9 | 42 |
| 369 | 2 | 2 | 497 | 4.4 | 1.05 | 0.70 | 0.10 | 0.05 | 30 | 11 | 30 |
| 370 | 2 | 2 | 498 | 5.5 | 1.50 | 1.05 | 0.10 | 0.05 | 34 | 15 | 34 |
| 371 | 2 | 2 | 500 | 4.2 | 1.00 | 0.65 | 0.20 | 0.10 | 33 | 13 | 33 |
| 372 | 2 | 2 | 501 | 5.3 | 1.45 | 0.90 | 0.10 | 0.05 | 38 | 20 | 38 |
| 373 | 2 | 2 | 503 | 5.3 | 1.75 | 1.05 | 0.20 | 0.10 | 34 | 9 | 34 |
| 374 | 2 | 2 | 504 | 6.0 | 1.50 | 1.00 | 0.15 | 0.05 | 42 | 21 | 42 |
| 375 | 2 | 2 | 506 | 5.5 | 2.00 | 0.75 | 0.10 | 0.05 | 40 | 18 | 40 |
| 376 | 2 | 2 | 507 | 4.3 | 1.40 | 0.55 | 0.15 | 0.05 | 32 | 17 | 32 |
| 377 | 2 | 2 | 509 | 5.5 | 1.15 | 1.10 | 0.25 | 0.10 | 34 | 15 | 34 |
| 378 | 2 | 2 | 510 | 5.4 | 1.50 | 0.90 | 0.15 | 0.05 | 38 | 12 | 38 |
| 379 | 2 | 2 | 511 | 6.3 | 1.25 | 1.25 | 0.20 | 0.10 | 38 | 11 | 38 |
| 380 | 2 | 2 | 512 | 6.4 | 2.20 | 1.15 | 0.15 | 0.05 | 34 | 12 | 34 |
| 381 | 2 | 2 | 513 | 5.8 | 1.45 | 1.00 | 0.20 | 0.10 | 38 | 16 | 38 |
| 382 | 2 | 2 | 514 | 5.0 | 1.15 | 0.95 | 0.10 | 0.05 | 31 | 9 | 31 |
| 383 | 2 | 2 | 515 | 4.9 | 1.75 | 0.75 | 0.15 | 0.05 | 32 | 15 | 32 |
| 384 | 2 | 2 | 516 | 3.1 | 1.30 | 0.40 | 0.10 | 0.05 | 24 | 5 | 24 |
| 385 | 2 | 2 | 518 | 7.5 | 2.00 | 1.55 | 0.25 | 0.15 | 34 | 8 | 34 |
| 386 | 2 | 2 | 519 | 5.0 | 1.90 | 0.90 | 0.10 | 0.05 | 36 | 20 | 36 |
| 387 | 2 | 2 | 520 | 7.5 | 2.20 | 1.55 | 0.25 | 0.10 | 43 | 10 | 43 |
| 388 | 2 | 2 | 521 | 5.7 | 1.50 | 0.90 | 0.20 | 0.10 | 36 | 5 | 36 |
| 389 | 2 | 2 | 522 | 5.9 | 1.95 | 1.00 | 0.25 | 0.10 | 39 | 20 | 39 |
| 390 | 2 | 2 | 523 | 5.0 | 1.05 | 1.10 | 0.15 | 0.05 | 32 | 11 | 32 |
| 391 | 2 | 2 | 524 | 6.3 | 1.80 | 0.90 | 0.15 | 0.05 | 35 | 11 | 35 |
| 392 | 2 | 2 | 525 | 6.6 | 2.00 | 0.85 | 0.20 | 0.15 | 40 | 14 | 40 |
| 393 | 2 | 2 | 526 | 7.4 | 2.10 | 1.25 | 0.30 | 0.15 | 44 | 17 | 44 |
| 394 | 2 | 2 | 528 | 6.5 | 1.45 | 1.40 | 0.30 | 0.10 | 40 | 19 | 40 |
| 395 | 2 | 2 | 529 | 2.9 | 0.75 | 0.75 | 0.15 | 0.05 | 25 | 13 | 25 |
| 396 | 2 | 2 | 530 | 6.4 | 1.95 | 1.00 | 0.20 | 0.10 | 34 | 12 | 34 |
| 397 | 2 | 2 | 531 | 3.1 | 0.90 | 0.65 | 0.15 | 0.05 | 30 | 22 | 30 |
| 398 | 2 | 2 | 532 | 6.8 | 1.80 | 1.20 | 0.15 | 0.05 | 42 | 20 | 42 |
| 399 | 2 | 2 | 533 | 5.6 | 2.40 | 0.00 | 0.15 | 0.05 | 37 | 23 | 37 |
| 400 | 2 | 2 | 534 | 4.3 | 1.00 | 1.05 | 0.25 | 0.10 | 32 | 15 | 32 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 401 | 2 | 2 | 535 | 4.8 | 1.15 | 0.95 | 0.15 | 0.05 | 32 | 13 | 32 |
| 402 | 2 | 2 | 536 | 6.5 | 1.55 | 2.00 | 0.30 | 0.15 | 41 | 12 | 41 |
| 403 | 2 | 2 | 537 | 4.4 | 1.40 | 0.60 | 0.15 | 0.05 | 29 | 17 | 29 |
| 404 | 2 | 2 | 538 | 5.9 | 1.50 | 1.00 | 0.30 | 0.10 | 36 | 17 | 36 |
| 405 | 2 | 2 | 539 | 4.9 | 1.30 | 0.90 | 0.10 | 0.05 | 30 | 10 | 30 |
| 406 | 2 | 2 | 540 | 4.9 | 1.30 | 0.70 | 0.15 | 0.05 | 32 | 14 | 32 |
| 407 | 2 | 2 | 541 | 6.3 | 1.50 | 0.95 | 0.20 | 0.10 | 36 | 6 | 36 |
| 408 | 2 | 2 | 542 | 4.2 | 1.00 | 0.60 | 0.10 | 0.05 | 32 | 14 | 32 |
| 409 | 2 | 2 | 543 | 5.4 | 1.25 | 1.00 | 0.30 | 0.15 | 37 | 15 | 37 |
| 410 | 2 | 2 | 544 | 6.8 | 1.30 | 1.20 | 0.20 | 0.05 | 40 | 18 | 40 |
| 411 | 2 | 2 | 545 | 5.5 | 1.55 | 1.20 | 0.20 | 0.10 | 34 | 7 | 34 |
| 412 | 2 | 2 | 546 | 5.7 | 1.40 | 0.85 | 0.20 | 0.10 | 39 | 19 | 39 |
| 413 | 2 | 2 | 547 | 5.8 | 1.50 | 1.10 | 0.10 | 0.05 | 33 | 12 | 33 |
| 414 | 2 | 2 | 549 | 5.8 | 1.80 | 1.30 | 0.10 | 0.05 | 32 | 15 | 32 |
| 415 | 2 | 2 | 552 | 5.6 | 1.00 | 1.15 | 0.15 | 0.05 | 37 | 23 | 37 |
| 416 | 2 | 2 | 555 | 6.0 | 1.70 | 1.30 | 0.15 | 0.05 | 36 | 7 | 36 |
| 417 | 2 | 2 | 557 | 3.2 | 0.50 | 0.50 | 0.10 | 0.05 | 28 | 9 | 28 |
| 418 | 2 | 2 | 558 | 3.5 | 1.05 | 0.40 | 0.20 | 0.10 | 31 | 11 | 31 |
| 419 | 2 | 2 | 559 | 8.2 | 2.00 | 1.80 | 0.10 | 0.05 | 45 | 13 | 45 |
| 420 | 2 | 2 | 561 | 5.1 | 1.40 | 0.75 | 0.10 | 0.05 | 28 | 6 | 28 |
| 421 | 2 | 2 | 563 | 5.2 | 0.60 | 1.30 | 0.25 | 0.10 | 32 | 11 | 32 |
| 422 | 2 | 2 | 564 | 6.5 | 1.90 | 0.80 | 0.15 | 0.05 | 34 | 11 | 34 |
| 423 | 2 | 2 | 565 | 3.0 | 0.65 | 0.25 | 0.15 | 0.05 | 31 | 14 | 31 |
| 424 | 2 | 2 | 566 | 6.4 | 2.00 | 1.30 | 0.20 | 0.10 | 38 | 18 | 38 |
| 425 | 2 | 2 | 567 | 6.0 | 1.25 | 1.15 | 0.15 | 0.10 | 36 | 15 | 36 |
| 426 | 2 | 2 | 568 | 5.9 | 1.85 | 0.80 | 0.10 | 0.05 | 38 | 19 | 38 |
| 427 | 2 | 2 | 569 | 7.0 | 1.95 | 1.05 | 0.20 | 0.10 | 38 | 11 | 38 |
| 428 | 2 | 2 | 570 | 6.1 | 1.70 | 1.30 | 0.15 | 0.05 | 38 | 10 | 38 |
| 429 | 2 | 2 | 572 | 5.3 | 1.50 | 0.45 | 0.20 | 0.10 | 32 | 13 | 32 |
| 430 | 2 | 2 | 573 | 4.7 | 1.30 | 0.70 | 0.10 | 0.05 | 36 | 12 | 36 |
| 431 | 2 | 2 | 574 | 3.7 | 1.00 | 0.65 | 0.10 | 0.05 | 31 | 19 | 31 |
| 432 | 2 | 2 | 575 | 5.5 | 1.40 | 0.75 | 0.10 | 0.05 | 32 | 10 | 32 |
| 433 | 2 | 2 | 577 | 4.0 | 1.20 | 0.55 | 0.10 | 0.05 | 29 | 15 | 29 |
| 434 | 2 | 2 | 578 | 5.1 | 1.80 | 0.40 | 0.10 | 0.05 | 32 | 16 | 32 |
| 435 | 2 | 2 | 579 | 7.0 | 1.60 | 1.25 | 0.15 | 0.05 | 38 | 8 | 38 |
| 436 | 2 | 2 | 580 | 5.6 | 1.70 | 0.90 | 0.20 | 0.10 | 31 | 13 | 31 |
| 437 | 2 | 2 | 581 | 3.9 | 1.00 | 0.55 | 0.15 | 0.05 | 27 | 12 | 27 |
| 438 | 2 | 2 | 582 | 3.5 | 1.00 | 0.40 | 0.10 | 0.05 | 29 | 14 | 29 |
| 439 | 2 | 2 | 583 | 5.4 | 1.50 | 0.75 | 0.20 | 0.10 | 36 | 13 | 36 |
| 440 | 2 | 2 | 584 | 5.1 | 1.60 | 0.65 | 0.10 | 0.05 | 32 | 16 | 32 |
| 441 | 2 | 2 | 585 | 5.5 | 1.60 | 0.80 | 0.20 | 0.10 | 37 | 7 | 37 |
| 442 | 2 | 2 | 586 | 6.2 | 1.25 | 1.25 | 0.25 | 0.15 | 37 | 4 | 37 |
| 443 | 2 | 2 | 587 | 4.1 | 2.00 | 0.00 | 0.20 | 0.10 | 29 | 13 | 29 |
| 444 | 2 | 2 | 588 | 5.8 | 1.00 | 1.10 | 0.20 | 0.10 | 38 | 9 | 38 |
| 445 | 2 | 2 | 589 | 5.9 | 1.40 | 1.00 | 0.25 | 0.15 | 36 | 12 | 36 |
| 446 | 2 | 2 | 591 | 6.4 | 1.70 | 0.85 | 0.20 | 0.10 | 39 | 15 | 39 |
| 447 | 2 | 2 | 592 | 4.2 | 1.00 | 0.85 | 0.20 | 0.10 | 28 | 9 | 28 |
| 448 | 2 | 2 | 593 | 5.8 | 1.90 | 0.70 | 0.20 | 0.10 | 36 | 12 | 36 |
| 449 | 2 | 2 | 594 | 7.7 | 2.05 | 1.20 | 0.15 | 0.05 | 43 | 8 | 43 |
| 450 | 2 | 2 | 596 | 7.9 | 1.90 | 1.35 | 0.15 | 0.10 | 45 | 7 | 45 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 451 | 2 | 2 | 597 | 7.2 | 2.20 | 0.60 | 0.10 | 0.05 | 38 | 9 | 38 |
| 452 | 2 | 2 | 599 | 6.0 | 2.00 | 0.90 | 0.15 | 0.05 | 35 | 16 | 35 |
| 453 | 2 | 2 | 600 | 7.0 | 1.75 | 1.15 | 0.15 | 0.05 | 39 | 18 | 39 |
| 454 | 2 | 2 | 601 | 5.6 | 2.30 | 0.00 | 0.10 | 0.05 | 36 | 15 | 36 |
| 455 | 2 | 2 | 602 | 6.5 | 2.90 | 0.00 | 0.25 | 0.10 | 40 | 21 | 40 |
| 456 | 2 | 2 | 603 | 6.7 | 1.60 | 1.00 | 0.15 | 0.05 | 40 | 15 | 40 |
| 457 | 2 | 2 | 605 | 5.6 | 1.25 | 1.25 | 0.20 | 0.10 | 34 | 15 | 34 |
| 458 | 2 | 2 | 606 | 4.5 | 0.90 | 1.00 | 0.10 | 0.05 | 36 | 20 | 36 |
| 459 | 2 | 2 | 607 | 4.7 | 1.25 | 0.80 | 0.10 | 0.05 | 33 | 6 | 33 |
| 460 | 2 | 2 | 608 | 5.4 | 1.30 | 0.75 | 0.10 | 0.05 | 36 | 19 | 36 |
| 461 | 2 | 2 | 610 | 5.5 | 1.30 | 1.35 | 0.20 | 0.10 | 36 | 15 | 36 |
| 462 | 2 | 2 | 612 | 5.9 | 1.40 | 1.00 | 0.15 | 0.05 | 38 | 17 | 38 |
| 463 | 2 | 2 | 613 | 5.8 | 1.20 | 0.95 | 0.10 | 0.05 | 35 | 13 | 35 |
| 464 | 2 | 2 | 614 | 4.4 | 1.15 | 0.50 | 0.10 | 0.05 | 31 | 6 | 31 |
| 465 | 2 | 2 | 616 | 4.5 | 0.60 | 1.65 | 0.15 | 0.05 | 32 | 15 | 32 |
| 466 | 2 | 2 | 617 | 3.6 | 0.90 | 0.60 | 0.10 | 0.05 | 28 | 14 | 28 |
| 467 | 2 | 2 | 618 | 3.8 | 1.25 | 0.50 | 0.10 | 0.05 | 32 | 17 | 32 |
| 468 | 2 | 2 | 619 | 4.6 | 1.30 | 1.00 | 0.10 | 0.05 | 34 | 10 | 34 |
| 469 | 2 | 2 | 621 | 5.5 | 1.25 | 1.15 | 0.15 | 0.05 | 39 | 15 | 39 |
| 470 | 2 | 2 | 623 | 5.5 | 1.50 | 0.75 | 0.20 | 0.10 | 38 | 12 | 38 |
| 471 | 2 | 3. | 625 | 7.5 | 1.75 | 1.35 | 0.20 | 0.10 | 37 | 14 | 37 |
| 472 | 2 | 3 | 626 | 7.2 | 1.65 | 1.45 | 0.20 | 0.10 | 36 | 8 | 36 |
| 473 | 2 | 3 | 628 | 8.0 | 1.80 | 1.25 | 0.20 | 0.10 | 39 | 11 | 39 |
| 474 | 2 | 3 | 631 | 6.6 | 1.60 | 1.30 | 0.30 | 0.15 | 36 | 13 | 36 |
| 475 | 2 | 3 | 632 | 6.2 | 1.55 | 1.35 | 0.20 | 0.10 | 39 | 10 | 39 |
| 476 | 2 | 3 | 633 | 7.7 | 1.80 | 1.45 | 0.25 | 0.10 | 36 | 8 | 36 |
| 477 | 2 | 3 | 635 | 7.1 | 2.00 | 0.90 | 0.20 | 0.10 | 43 | 6 | 43 |
| 478 | 2 | 3 | 636 | 6.6 | 1.85 | 1.10 | 0.20 | 0.10 | 39 | 17 | 39 |
| 479 | 2 | 3 | 637 | 5.8 | 1.70 | 0.90 | 0.20 | 0.10 | 33 | 18 | 33 |
| 480 | 2 | 3 | 638 | 6.5 | 1.70 | 1.00 | 0.20 | 0.10 | 41 | 12 | 41 |
| 481 | 2 | 3 | 639 | 8.4 | 2.45 | 1.05 | 0.20 | 0.10 | 48 | 16 | 48 |
| 482 | 2 | 3 | 640 | 6.7 | 1.80 | 0.80 | 0.25 | 0.10 | 42 | 9 | 42 |
| 483 | 2 | 3 | 641 | 6.8 | 2.10 | 1.10 | 0.10 | 0.05 | 34 | 7 | 34 |
| 484 | 2 | 3 | 645 | 6.7 | 1.60 | 1.10 | 0.20 | 0.10 | 42 | 10 | 42 |
| 485 | 2 | 3 | 646 | 5.0 | 1.50 | 0.70 | 0.15 | 0.05 | 32 | 18 | 32 |
| 486 | 2 | 3 | 647 | 5.8 | 1.05 | 1.00 | 0.10 | 0.05 | 32 | 6 | 32 |
| 487 | 2 | 3 | 649 | 5.4 | 1.55 | 0.70 | 0.20 | 0.10 | 32 | 11 | 32 |
| 488 | 2 | 3 | 650 | 7.1 | 1.50 | 1.10 | 0.20 | 0.10 | 37 | 16 | 37 |
| 489 | 2 | 3 | 651 | 6.4 | 1.70 | 0.60 | 0.10 | 0.05 | 37 | 11 | 37 |
| 490 | 2 | 3 | 652 | 6.0 | 1.50 | 1.00 | 0.20 | 0.10 | 35 | 12 | 35 |
| 491 | 2 | 3 | 653 | 5.3 | 1.50 | 0.60 | 0.10 | 0.05 | 35 | 12 | 35 |
| 492 | 2 | 3 | 654 | 5.9 | 1.90 | 0.55 | 0.10 | 0.05 | 33 | 13 | 33 |
| 493 | 2 | 3 | 655 | 8.6 | 2.10 | 1.00 | 0.20 | 0.10 | 43 | 9 | 43 |
| 494 | 2 | 3 | 656 | 6.6 | 1.50 | 1.00 | 0.15 | 0.05 | 37 | 17 | 37 |
| 495 | 2 | 3 | 657 | 7.5 | 1.50 | 1.10 | 0.20 | 0.10 | 42 | 11 | 42 |
| 496 | 2 | 3 | 658 | 7.0 | 1.70 | 1.20 | 0.25 | 0.10 | 40 | 11 | 40 |
| 497 | 2 | 3 | 659 | 6.8 | 1.60 | 1.00 | 0.15 | 0.05 | 37 | 17 | 37 |
| 498 | 2 | 3 | 660 | 6.7 | 1.00 | 1.50 | 0.30 | 0.15 | 41 | 17 | 41 |
| 499 | 2 | 3 | 661 | 6.4 | 1.60 | 1.30 | 0.35 | 0.20 | 41 | 15 | 41 |
| 500 | 2 | 3 | 662 | 6.2 | 1.35 | 1.00 | 0.20 | 0.10 | 37 | 16 | 37 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 501 | 2 | 3 | 663 | 5.6 | 1.55 | 0.70 | 0.10 | 0.05 | 37 | 21 | 37 |
| 502 | 2 | 3 | 664 | 6.3 | 1.60 | 1.20 | 0.15 | 0.05 | 39 | 12 | 39 |
| 503 | 2 | 3 | 666 | 6.2 | 1.50 | 1.30 | 0.30 | 0.15 | 37 | 13 | 37 |
| 504 | 2 | 3 | 667 | 6.0 | 1.50 | 1.10 | 0.20 | 0.10 | 32 | 8 | 32 |
| 505 | 2 | 3 | 668 | 5.6 | 1.30 | 1.25 | 0.25 | 0.10 | 40 | 14 | 40 |
| 506 | 2 | 3 | 669 | 5.6 | 1.55 | 0.80 | 0.20 | 0.10 | 40 | 21 | 40 |
| 507 | 2 | 3 | 670 | 6.4 | 1.35 | 1.45 | 0.30 | 0.15 | 40 | 16 | 40 |
| 508 | 2 | 3 | 671 | 5.1 | 1.60 | 0.55 | 0.10 | 0.05 | 34 | 19 | 34 |
| 509 | 2 | 3 | 672 | 6.4 | 1.65 | 1.05 | 0.25 | 0.10 | 37 | 13 | 37 |
| 510 | 2 | 3 | 673 | 6.5 | 1.60 | 1.20 | 0.25 | 0.10 | 40 | 22 | 40 |
| 511 | 2 | 3 | 674 | 7.1 | 1.60 | 1.45 | 0.30 | 0.15 | 40 | 10 | 40 |
| 512 | 2 | 3 | 676 | 6.7 | 2.00 | 1.40 | 0.25 | 0.10 | 38 | 17 | 38 |
| 513 | 2 | 3 | 680 | 6.8 | 1.65 | 1.05 | 0.20 | 0.10 | 39 | 10 | 39 |
| 514 | 2 | 3 | 686 | 4.0 | 0.90 | 1.10 | 0.20 | 0.10 | 30 | 14 | 30 |
| 515 | 2 | 3 | 688 | 6.4 | 1.20 | 1.20 | 0.20 | 0.10 | 34 | 14 | 34 |
| 516 | 2 | 3 | 696 | 5.4 | 1.25 | 0.80 | 0.20 | 0.10 | 38 | 13 | 38 |
| 517 | 2 | 3 | 697 | 5.7 | 1.90 | 0.80 | 0.20 | 0.10 | 34 | 16 | 34 |
| 518 | 2 | 3 | 699 | 6.0 | 1.80 | 0.90 | 0.15 | 0.05 | 34 | 16 | 34 |
| 519 | 2 | 3 | 700 | 7.7 | 2.00 | 1.50 | 0.30 | 0.15 | 40 | 9 | 40 |
| 520 | 2 | 3 | 702 | 5.6 | 1.35 | 0.75 | 0.20 | 0.10 | 32 | 7 | 32 |
| 521 | 2 | 3 | 703 | 6.9 | 1.45 | 1.45 | 0.20 | 0.10 | 35 | 10 | 35 |
| 522 | 2 | 3 | 705 | 6.5 | 1.30 | 1.30 | 0.25 | 0.10 | 43 | 16 | 43 |
| 523 | 2 | 3 | 706 | 6.3 | 2.15 | 0.80 | 0.20 | 0.10 | 34 | 14 | 34 |
| 524 | 2 | 3 | 712 | 5.8 | 1.05 | 1.05 | 0.20 | 0.10 | 32 | 12 | 32 |
| 525 | 2 | 3 | 713 | 5.2 | 1.40 | 0.90 | 0.25 | 0.10 | 37 | 21 | 37 |
| 526 | 2 | 3 | 714 | 6.3 | 1.40 | 1.35 | 0.15 | 0.05 | 37 | 20 | 37 |
| 527 | 2 | 3 | 715 | 6.1 | 1.15 | 0.95 | 0.25 | 0.10 | 39 | 14 | 39 |
| 528 | 2 | 3 | 716 | 5.6 | 1.35 | 1.10 | 0.25 | 0.10 | 32 | 12 | 32 |
| 529 | 2 | 3 | 717 | 7.0 | 1.55 | 1.00 | 0.20 | 0.10 | 35 | 15 | 35 |
| 530 | 2 | 3 | 718 | 5.7 | 1.50 | 0.85 | 0.20 | 0.10 | 37 | 16 | 37 |
| 531 | 2 | 3 | 719 | 6.1 | 1.80 | 1.00 | 0.20 | 0.10 | 35 | 19 | 35 |
| 532 | 2 | 3 | 721 | 7.6 | 1.65 | 1.35 | 0.20 | 0.10 | 41 | 16 | 41 |
| 533 | 2 | 3 | 723 | 7.8 | 1.95 | 1.60 | 0.20 | 0.10 | 42 | 14 | 42 |
| 534 | 2 | 3 | 724 | 8.3 | 2.20 | 1.20 | 0.25 | 0.10 | 47 | 14 | 47 |
| 535 | 2 | 3 | 726 | 5.2 | 0.80 | 1.40 | 0.20 | 0.10 | 31 | 7 | 31 |
| 536 | 2 | 3 | 727 | 5.1 | 1.65 | 0.60 | 0.10 | 0.05 | 36 | 20 | 36 |
| 537 | 2 | 3 | 730 | 8.6 | 2.30 | 1.25 | 0.30 | 0.15 | 40 | 11 | 40 |
| 538 | 2 | 3 | 731 | 7.8 | 1.45 | 1.50 | 0.25 | 0.10 | 37 | 9 | 37 |
| 539 | 2 | 3 | 733 | 5.2 | 1.30 | 0.95 | 0.25 | 0.15 | 28 | 11 | 28 |
| 540 | 2 | 3 | 734 | 7.0 | 1.80 | 1.15 | 0.30 | 0.15 | 32 | 6 | 32 |
| 541 | 2 | 3 | 737 | 6.4 | 1.40 | 1.20 | 0.20 | 0.10 | 36 | 19 | 36 |
| 542 | 2 | 3 | 739 | 7.1 | 1.00 | 2.15 | 0.40 | 0.20 | 37 | 7 | 37 |
| 543 | 2 | 3 | 740 | 4.0 | 1.40 | 0.55 | 0.15 | 0.05 | 27 | 13 | 27 |
| 544 | 2 | 4 | 742 | 3.6 | 0.95 | 0.85 | 0.30 | 0.10 | 28 | 11 | 28 |
| 545 | 2 | 4 | 744 | 5.6 | 1.00 | 1.55 | 0.40 | 0.20 | 36 | 14 | 36 |
| 546 | 2 | 4 | 745 | 5.5 | 1.05 | 1.55 | 0.40 | 0.20 | 34 | 7 | 34 |
| 547 | 2 | 4 | 746 | 4.7 | 1.15 | 1.25 | 0.30 | 0.15 | 31 | 12 | 31 |
| 548 | 2 | 4 | 747 | 6.3 | 1.60 | 1.15 | 0.15 | 0.05 | 35 | 12 | 35 |
| 549 | 2 | 4 | 748 | 7.9 | 2.35 | 1.15 | 0.20 | 0.10 | 38 | 21 | 38 |
| 550 | 2 | 4 | 749 | 4.8 | 0.90 | 0.90 | 0.10 | 0.05 | 32 | 14 | 32 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 551 | 2 | 4 | 751 | 5.8 | 1.60 | 0.90 | 0.25 | 0.10 | 39 | 9 | 39 |
| 552 | 2 | 4 | 753 | 4.9 | 1.10 | 0.95 | 0.25 | 0.15 | 33 | 13 | 33 |
| 553 | 2 | 4 | 754 | 5.2 | 1.15 | 1.25 | 0.35 | 0.20 | 33 | 10 | 33 |
| 554 | 2 | 4 | 756 | 4.5 | 1.10 | 0.70 | 0.10 | 0.05 | 30 | 10 | 30 |
| 555 | 2 | 4 | 757 | 5.9 | 1.45 | 1.20 | 0.15 | 0.05 | 37 | 9 | 37 |
| 556 | 2 | 4 | 758 | 4.8 | 1.40 | 0.65 | 0.10 | 0.05 | 33 | 15 | 33 |
| 557 | 2 | 4 | 759 | 4.8 | 1.00 | 0.90 | 0.20 | 0.10 | 37 | 20 | 37 |
| 558 | 2 | 4 | 760 | 4.6 | 0.90 | 1.00 | 0.20 | 0.10 | 35 | 12 | 35 |
| 559 | 2 | 4 | 761 | 5.5 | 1.25 | 1.20 | 0.25 | 0.10 | 35 | 13 | 35 |
| 560 | 2 | 4 | 766 | 5.1 | 1.10 | 1.00 | 0.20 | 0.10 | 35 | 18 | 35 |
| 561 | 2 | 4 | 767 | 5.9 | 1.50 | 1.20 | 0.30 | 0.15 | 40 | 13 | 40 |
| 562 | 2 | 4 | 768 | 5.2 | 1.00 | 1.00 | 0.10 | 0.05 | 31 | 14 | 31 |
| 563 | 2 | 4 | 769 | 5.1 | 1.35 | 0.80 | 0.25 | 0.10 | 37 | 16 | 37 |
| 564 | 2 | 4 | 770 | 4.9 | 1.30 | 0.70 | 0.15 | 0.05 | 29 | 14 | 29 |
| 565 | 2 | 4 | 771 | 4.9 | 1.15 | 1.05 | 0.20 | 0.10 | 35 | 18 | 35 |
| 566 | 2 | 4 | 772 | 5.7 | 1.60 | 0.95 | 0.05 | 0.05 | 33 | 12 | 33 |
| 567 | 2 | 4 | 773 | 6.1 | 1.40 | 1.15 | 0.30 | 0.15 | 35 | 12 | 35 |
| 568 | 2 | 4 | 774 | 4.5 | 1.20 | 0.90 | 0.15 | 0.05 | 30 | 10 | 30 |
| 569 | 2 | 4 | 775 | 6.1 | 1.70 | 1.05 | 0.20 | 0.10 | 36 | 17 | 36 |
| 570 | 2 | 4 | 776 | 4.4 | 1.00 | 1.10 | 0.20 | 0.10 | 29 | 15 | 29 |
| 571 | 2 | 4 | 778 | 4.2 | 1.35 | 0.80 | 0.20 | 0.10 | 31 | 9 | 31 |
| 572 | 2 | 4 | 779 | 6.8 | 2.00 | 1.75 | 0.40 | 0.20 | 37 | 11 | 37 |
| 573 | 2 | 4 | 783 | 4.3 | 1.15 | 0.70 | 0.25 | 0.10 | 30 | 12 | 30 |
| 574 | 2 | 4 | 784 | 5.7 | 1.35 | 1.10 | 0.20 | 0.10 | 35 | 11 | 35 |
| 575 | 2 | 4 | 786 | 4.7 | 1.15 | 0.80 | 0.15 | 0.05 | 30 | 9 | 30 |
| 576 | 2 | 4 | 787 | 4.5 | 0.90 | 0.95 | 0.20 | 0.10 | 30 | 9 | 30 |
| 577 | 2 | 4 | 789 | 5.6 | 1.10 | 0.80 | 0.15 | 0.05 | 37 | 14 | 37 |
| 578 | 2 | 4 | 790 | 4.9 | 1.35 | 0.65 | 0.20 | 0.10 | 34 | 11 | 34 |
| 579 | 2 | 4 | 791 | 6.0 | 1.60 | 1.05 | 0.20 | 0.10 | 36 | 18 | 36 |
| 580 | 2 | 4 | 792 | 6.2 | 2.20 | 1.20 | 0.30 | 0.15 | 37 | 10 | 37 |
| 581 | 2 | 4 | 793 | 6.5 | 1.85 | 1.10 | 0.25 | 0.10 | 35 | 9 | 35 |
| 582 | 2 | 4 | 794 | 4.9 | 1.30 | 1.00 | 0.20 | 0.10 | 33 | 13 | 33 |
| 583 | 2 | 4 | 795 | 6.4 | 1.50 | 1.25 | 0.30 | 0.15 | 34 | 15 | 34 |
| 584 | 2 | 4 | 796 | 4.6 | 1.20 | 0.80 | 0.25 | 0.10 | 31 | 14 | 31 |
| 585 | 2 | 4 | 797 | 5.6 | 1.50 | 1.90 | 0.35 | 0.15 | 38 | 12 | 38 |
| 586 | 2 | 4 | 798 | 4.5 | 0.90 | 0.90 | 0.10 | 0.05 | 33 | 16 | 33 |
| 587 | 2 | 4 | 800 | 3.5 | 1.05 | 0.70 | 0.10 | 0.05 | 24 | 10 | 24 |
| 588 | 2 | 4 | 801 | 4.8 | 1.15 | 1.05 | 0.25 | 0.10 | 32 | 8 | 32 |
| 589 | 2 | 4 | 803 | 4.2 | 0.90 | 1.10 | 0.20 | 0.10 | 29 | 9 | 29 |
| 590 | 2 | 4 | 806 | 4.4 | 0.90 | 0.85 | 0.15 | 0.05 | 31 | 11 | 31 |
| 591 | 2 | 4 | 808 | -5.0 | 1.25 | 1.00 | 0.25 | 0.10 | 34 | 20 | 34 |
| 592 | 2 | 4 | 810 | 4.4 | 1.00 | 1.35 | 0.30 | 0.15 | 30 | 14 | 30 |
| 593 | 2 | 4 | 811 | 4.7 | 1.30 | 0.55 | 0.20 | 0.10 | 32 | 16 | 32 |
| 594 | 2 | 4 | 815 | 6.0 | 1.50 | 1.25 | 0.15 | 0.05 | 36 | 12 | 36 |
| 595 | 2 | 4 | 816 | 4.5 | 1.15 | 0.80 | 0.10 | 0.05 | 33 | 6 | 33 |
| 596 | 2 | 4 | 818 | 5.4 | 1.50 | 0.80 | 0.15 | 0.05 | 39 | 11 | 39 |
| 597 | 2 | 4 | 819 | 6.3 | 1.50 | 0.80 | 0.30 | 0.15 | 39 | 12 | 39 |
| 598 | 2 | 4 | 821 | 6.4 | 1.40 | 1.05 | 0.20 | 0.10 | 36 | 10 | 36 |
| 599 | 2 | 4 | 822 | 6.8 | 0.80 | 1.85 | 0.30 | 0.15 | 40 | 14 | 40 |
| 600 | 2 | 4 | 824 | 5.2 | 1.25 | 1.05 | 0.15 | 0.05 | 32 | 17 | 32 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 601 | 2 | 4 | 825 | 4.4 | 1.10 | 1.20 | 0.25 | 0.10 | 34 | 19 | 34 |
| 602 | 2 | 4 | 826 | 5.5 | 1.60 | 1.00 | 0.30 | 0.15 | 36 | 16 | 36 |
| 603 | 2 | 4 | 827 | 5.4 | 1.30 | 1.30 | 0.25 | 0.10 | 35 | 14 | 35 |
| 604 | 2 | 4 | 828 | 5.4 | 1.10 | 1.05 | 0.30 | 0.15 | 40 | 14 | 40 |
| 605 | 2 | 4 | 829 | 5.6 | 1.30 | 1.25 | 0.20 | 0.10 | 34 | 7 | 34 |
| 606 | 2 | 4 | 830 | 6.5 | 1.05 | 1.50 | 0.30 | 0.15 | 37 | 16 | 37 |
| 607 | 2 | 4 | 831 | 4.6 | 1.50 | 0.40 | 0.10 | 0.05 | 29 | 15 | 29 |
| 608 | 2 | 4 | 832 | 4.8 | 1.10 | 0.90 | 0.20 | 0.10 | 32 | 12 | 32 |
| 609 | 2 | 4 | 833 | 5.2 | 1.30 | 1.55 | 0.45 | 0.20 | 31 | 10 | 31 |
| 610 | 2 | 4 | 834 | 5.1 | 1.20 | 1.05 | 0.20 | 0.10 | 34 | 12 | 34 |
| 611 | 2 | 4 | 835 | 6.1 | 1.50 | 0.75 | 0.15 | 0.05 | 34 | 8 | 34 |
| 612 | 2 | 4 | 836 | 4.8 | 1.10 | 0.90 | 0.20 | 0.10 | 35 | 9 | 35 |
| 613 | 2 | 4 | 838 | 5.7 | 1.10 | 1.50 | 0.25 | 0.10 | 29 | 15 | 29 |
| 614 | 2 | 4 | 839 | 7.3 | 2.00 | 1.05 | 0.20 | 0.10 | 38 | 12 | 38 |
| 615 | 2 | 4 | 840 | 4.5 | 1.15 | 1.05 | 0.25 | 0.10 | 29 | 11 | 29 |
| 616 | 2 | 4 | 841 | 4.7 | 1.50 | 1.05 | 0.15 | 0.05 | 30 | 11 | 30 |
| 617 | 2 | 4 | 842 | 7.7 | 1.50 | 0.60 | 0.20 | 0.10 | 40 | 12 | 40 |
| 618 | 2 | 4 | 843 | 4.4 | 1.00 | 0.80 | 0.20 | 0.10 | 30 | 11 | 30 |
| 619 | 2 | 4 | 844 | 3.9 | 1.10 | 0.75 | 0.10 | 0.05 | 30 | 16 | 30 |
| 620 | 2 | 4 | 846 | 4.8 | 0.80 | 0.80 | 0.20 | 0.10 | 34 | 19 | 34 |
| 621 | 3 | 1 | 1 | 5.9 | 0.60 | 1.80 | 0.40 | 0.20 | 33 | 9 | 33 |
| 622 | 3 | 1 | 3 | 6.2 | 1.25 | 1.70 | 0.40 | 0.15 | 37 | 8 | 37 |
| 623 | 3 | 1 | 4 | 6.5 | 0.80 | 1.80 | 0.30 | 0.15 | 32 | 6 | 32 |
| 624 | 3 | 1 | 5 | 8.3 | 1.70 | 2.60 | 0.70 | 0.30 | 37 | 7 | 37 |
| 625 | 3 | 1 | 6 | 5.7 | 0.60 | 1.50 | 0.40 | 0.15 | 28 | 6 | 28 |
| 626 | 3 | 1 | 7 | 6.8 | 0.70 | 1.95 | 0.50 | 0.25 | 35 | 7 | 35 |
| 627 | 3 | 1 | 8 | 4.0 | 0.60 | 1.00 | 0.40 | 0.15 | 24 | 5 | 24 |
| 628 | 3 | 1 | 10 | 6.0 | 0.80 | 1.80 | 0.70 | 0.30 | 31 | 6 | 31 |
| 629 | 3 | 1 | 11 | 7.0 | 0.75 | 2.05 | 0.60 | 0.30 | 33 | 6 | 33 |
| 630 | 3 | 1 | 12 | 9.6 | 1.30 | 3.20 | 0.90 | 0.45 | 32 | 4 | 32 |
| 631 | 3 | 1 | 13 | 6.9 | 0.60 | 2.70 | 0.80 | 0.40 | 36 | 7 | 36 |
| 632 | 3 | 1 | 14 | 7.9 | 0.75 | 2.65 | 0.90 | 0.50 | 32 | 3 | 32 |
| 633 | 3 | 1 | 15 | 4.5 | 0.65 | 1.45 | 0.45 | 0.20 | 26 | 7 | 26 |
| 634 | 3 | 1 | 16 | 4.7 | 0.60 | 1.60 | 0.50 | 0.25 | 31 | 5 | 31 |
| 635 | 3 | 1 | 17 | 8.0 | 1.95 | 1.20 | 0.30 | 0.15 | 39 | 9 | 39 |
| 636 | 3 | 1 | 18 | 8.0 | 0.80 | 2.70 | 0.85 | 0.40 | 37 | 5 | 37 |
| 637 | 3 | 1 | 20 | 7.0 | 0.85 | 1.90 | 0.65 | 0.35 | 34 | 6 | 34 |
| 638 | 3 | 1 | 21 | 2.5 | 0.25 | 1.05 | 0.55 | 0.25 | 23 | 3 | 23 |
| 639 | 3 | 1 | 22 | 3.0 | 0.30 | 0.75 | 0.35 | 0.10 | 22 | 6 | 22 |
| 640 | 3 | 1 | 23 | 3.2 | 0.45 | 1.10 | 0.60 | 0.30 | 20 | 4 | 20 |
| 641 | 3 | 1 | 24 | 5.5 | 0.90 | 1.65 | 0.65 | 0.30 | 26 | 3 | 26 |
| 642 | 3 | 1 | 25 | 5.0 | 0.20 | 1.85 | 0.60 | 0.30 | 24 | 3 | 24 |
| 643 | 3 | 1 | 26 | 3.9 | 0.40 | 1.25 | 0.60 | 0.30 | 22 | 4 | 22 |
| 644 | 3 | 1 | 27 | 2.8 | 0.15 | 1.20 | 0.60 | 0.30 | 18 | 3 | 18 |
| 645 | 3 | 1 | 28 | 2.5 | 0.50 | 0.80 | 0.55 | 0.30 | 16 | 4 | 16 |
| 646 | 3 | 1 | 29 | 5.5 | 0.65 | 1.70 | 0.85 | 0.45 | 27 | 5 | 27 |
| 647 | 3 | 1 | 30 | 2.1 | 0.25 | 0.95 | 0.60 | 0.30 | 14 | 3 | 14 |
| 648 | 3 | 1 | 32 | 4.2 | 0.55 | 1.15 | 0.60 | 0.30 | 24 | 3 | 24 |
| 649 | 3 | 1 | 34 | 3.0 | 0.20 | 0.80 | 0.50 | 0.30 | 19 | 3 | 19 |
| 650 | 3 | 1 | 35 | 2.8 | 0.15 | 1.20 | 0.60 | 0.30 | 18 | 6 | 18 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 651 | 3 | 1 | 36 | 3.9 | 0.25 | 1.55 | 0.80 | 0.35 | 23 | 4 | 23 |
| 652 | 3 | 1 | 37 | 2.6 | 0.00 | 1.15 | 0.55 | 0.30 | 19 | 4 | 19 |
| 653 | 3 | 1 | 38 | 3.8 | 0.30 | 1.40 | 0.80 | 0.40 | 23 | 4 | 23 |
| 654 | 3 | 1 | 39 | 5.0 | 0.70 | 1.80 | 0.90 | 0.40 | 24 | 3 | 24 |
| 655 | 3 | 1 | 40 | 3.7 | 0.30 | 1.50 | 0.65 | 0.35 | 23 | 5 | 23 |
| 656 | 3 | 1 | 41 | 3.9 | 0.25 | 1.75 | 0.90 | 0.40 | 20 | 4 | 20 |
| 657 | 3 | 1 | 42 | 3.6 | 0.25 | 1.60 | 0.95 | 0.45 | 18 | 5 | 18 |
| 658 | 3 | 1 | 43 | 7.8 | 0.65 | 2.15 | 0.50 | 0.30 | 39 | 5 | 39 |
| 659 | 3 | 1 | 44 | 7.4 | 0.75 | 3.00 | 0.85 | 0.45 | 35 | 4 | 35 |
| 660 | 3 | 1 | 45 | 8.5 | 0.80 | 2.70 | 0.65 | 0.30 | 38 | 4 | 38 |
| 661 | 3 | 1 | 46 | 4.5 | 0.40 | 1.50 | 0.50 | 0.20 | 28 | 5 | 28 |
| 662 | 3 | 1 | 47 | 1.5 | 0.05 | 0.85 | 0.65 | 0.35 | 12 | 3 | 12 |
| 663 | 3 | 1 | 49 | 2.2 | 0.30 | 0.90 | 0.60 | 0.30 | 18 | 4 | 18 |
| 664 | 3 | 1 | 50 | 5.6 | 0.80 | 1.00 | 0.60 | 0.30 | 25 | 5 | 25 |
| 665 | 3 | 1 | 51 | 4.2 | 0.35 | 1.45 | 0.60 | 0.30 | 24 | 4 | 24 |
| 666 | 3 | 1 | 52 | 3.3 | 0.20 | 1.00 | 0.50 | 0.25 | 21 | 4 | 21 |
| 667 | 3 | 1 | 53 | 2.9 | 0.30 | 0.80 | 0.55 | 0.35 | 20 | 3 | 20 |
| 668 | 3 | 1 | 54 | 3.0 | 0.40 | 1.15 | 0.60 | 0.30 | 22 | 4 | 22 |
| 669 | 3 | 1 | 56 | 2.6 | 0.20 | 0.80 | 0.50 | 0.25 | 17 | 3 | 17 |
| 670 | 3 | 1 | 57 | 4.2 | 0.30 | 1.50 | 0.60 | 0.30 | 23 | 3 | 23 |
| 671 | 3 | 1 | 58 | 8.8 | 1.30 | 3.30 | 0.80 | 0.35 | 35 | 4 | 35 |
| 672 | 3 | 1 | 59 | 4.8 | 0.45 | 1.25 | 0.40 | 0.20 | 24 | 4 | 24 |
| 673 | 3 | 1 | 60 | 7.1 | 1.05 | 1.60 | 0.35 | 0.15 | 31 | 6 | 31 |
| 674 | 3 | 1 | 61 | 3.5 | 0.30 | 1.30 | 0.50 | 0.25 | 20 | 4 | 20 |
| 675 | 3 | 1 | 62 | 4.9 | 0.35 | 1.70 | 0.70 | 0.30 | 23 | 4 | 23 |
| 676 | 3 | 1 | 63 | 4.4 | 0.30 | 1.40 | 0.65 | 0.35 | 24 | 4 | 24 |
| 677 | 3 | 1 | 65 | 2.2 | 0.35 | 0.85 | 0.45 | 0.20 | 16 | 3 | 16 |
| 678 | 3 | 1 | 66 | 3.6 | 0.20 | 1.40 | 0.90 | 0.40 | 22 | 2 | 22 |
| 679 | 3 | 1 | 67 | 4.2 | 0.20 | 1.70 | 0.75 | 0.35 | 20 | 2 | 20 |
| 680 | 3 | 1 | 68 | 4.4 | 0.65 | 1.50 | 0.75 | 0.35 | 22 | 4 | 22 |
| 681 | 3 | 1 | 69 | 4.4 | 0.60 | 1.30 | 0.45 | 0.20 | 28 | 5 | 28 |
| 682 | 3 | 2 | 70 | 3.6 | 0.30 | 1.50 | 1.15 | 0.70 | 19 | 2 | 19 |
| 683 | 3 | 2 | 71 | 2.2 | 0.10 | 1.00 | 0.80 | 0.40 | 14 | 3 | 14 |
| 684 | 3 | 2 | 72 | 4.7 | 0.70 | 1.45 | 0.95 | 0.45 | 20 | 3 | 20 |
| 685 | 3 | 2 | 73 | 2.3 | 0.15 | 1.25 | 0.85 | 0.35 | 14 | 2 | 14 |
| 686 | 3 | 2 | 74 | 2.0 | 0.10 | 0.90 | 0.60 | 0.30 | 15 | 4 | 15 |
| 687 | 3 | 2 | 75 | 2.7 | 0.20 | 1.15 | 0.90 | 0.45 | 16 | 1 | 16 |
| 688 | 3 | 2 | 76 | 5.4 | 0.75 | 1.80 | 1.10 | 0.50 | 26 | 1 | 26 |
| 689 | 3 | 2 | 77 | 3.6 | 0.30 | 1.35 | 0.95 | 0.45 | 16 | 3 | 16 |
| 690 | 3 | 2 | 78 | 7.3 | 1.00 | 2.15 | 0.75 | 0.35 | 29 | 5 | 29 |
| 691 | 3 | 2 | 79 | 3.2 | 0.35 | 1.05 | 0.70 | 0.30 | 18 | 3 | 18 |
| 692 | 3 | 2 | 80 | 4.5 | 0.45 | 1.65 | 0.85 | 0.40 | 25 | 3 | 25 |
| 693 | 3 | 2 | 81 | 2.0 | 0.10 | 1.35 | 0.80 | 0.35 | 13 | 3 | 13 |
| 694 | 3 | 2 | 82 | 2.5 | 0.10 | 1.15 | 0.30 | 0.75 | 19 | 4 | 19 |
| 695 | 3 | 2 | 83 | 5.6 | 0.85 | 1.85 | 1.15 | 0.55 | 23 | 3 | 23 |
| 696 | 3 | 2 | 84 | 1.3 | 0.10 | 0.65 | 0.65 | 0.30 | 12 | 1 | 12 |
| 697 | 3 | 2 | 85 | 5.6 | 0.40 | 2.25 | 1.15 | 0.50 | 25 | 3 | 25 |
| 698 | 3 | 2 | 86 | 7.3 | 1.00 | 2.40 | 0.75 | 0.35 | 36 | 9 | 36 |
| 699 | 3 | 2 | 87 | 7.0 | 1.30 | 1.75 | 0.55 | 0.25 | 37 | 12 | 37 |
| 700 | 3 | 2 | 88 | 1.8 | 0.00 | 0.90 | 0.55 | 0.30 | 15 | 2 | 15 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 701 | 3 | 2 | 89 | 7.4 | 1.40 | 2.45 | 0.80 | 0.45 | 40 | 9 | 40 |
| 702 | 3 | 2 | 90 | 3.4 | 0.40 | 1.35 | 0.75 | 0.25 | 26 | 4 | 26 |
| 703 | 3 | 2 | 91 | 7.0 | 1.05 | 2.25 | 0.70 | 0.30 | 37 | 6 | 37 |
| 704 | 3 | 2 | 92 | 2.0 | 0.10 | 1.05 | 0.90 | 0.40 | 14 | 2 | 14 |
| 705 | 3 | 2 | 93 | 1.3 | 0.00 | 0.75 | 0.65 | 0.30 | 12 | 2 | 12 |
| 706 | 3 | 2 | 94 | 4.1 | 0.50 | 1.35 | 1.00 | 0.50 | 20 | 5 | 20 |
| 707 | 3 | 2 | 95 | 3.8 | 0.40 | 1.55 | 0.90 | 0.35 | 21 | 3 | 21 |
| 708 | 3 | 2 | 96 | 8.2 | 1.55 | 2.30 | 0.80 | 0.35 | 32 | 6 | 32 |
| 709 | 3 | 2 | 98 | 7.0 | 0.90 | 2.15 | 0.55 | 0.25 | 29 | 2 | 29 |
| 710 | 3 | 2 | 99 | 6.6 | 0.95 | 1.75 | 0.45 | 0.25 | 36 | 6 | 36 |
| 711 | 3 | 2 | 100 | 5.6 | 1.05 | 1.35 | 0.45 | 0.20 | 27 | 7 | 27 |
| 712 | 3 | 2 | 101 | 7.9 | 1.35 | 2.45 | 0.90 | 0.50 | 36 | 7 | 36 |
| 713 | 3 | 2 | 103 | 8.8 | 1.50 | 2.45 | 0.70 | 0.35 | 37 | 5 | 37 |
| 714 | 3 | 2 | 104 | 3.3 | 0.45 | 1.10 | 0.60 | 0.30 | 20 | 3 | 20 |
| 715 | 3 | 2 | 105 | 1.2 | 0.00 | 0.60 | 0.60 | 0.35 | 10 | 1 | 10 |
| 716 | 3 | 2 | 106 | 1.5 | 0.00 | 0.75 | 0.75 | 0.35 | 10 | 2 | 10 |
| 717 | 3 | 2 | 107 | 7.0 | 1.20 | 2.05 | 0.60 | 0.30 | 31 | 5 | 31 |
| 718 | 3 | 2 | 108 | 8.4 | 1.70 | 2.75 | 0.85 | 0.45 | 38 | 6 | 38 |
| 719 | 3 | 2 | 109 | 7.7 | 1.05 | 1.85 | 0.60 | 0.30 | 34 | 5 | 34 |
| 720 | 3 | 2 | 110 | 4.1 | 0.50 | 1.70 | 0.65 | 0.35 | 29 | 5 | 29 |
| 721 | 3 | 2 | 111 | 1.4 | 0.10 | 0.55 | 0.65 | 0.25 | 10 | 2 | 10 |
| 722 | 3 | 2 | 112 | 1.3 | 0.05 | 0.60 | 0.60 | 0.25 | 10 | 1 | 10 |
| 723 | 3 | 2 | 113 | 6.1 | 1.00 | 1.70 | 1.10 | 0.55 | 30 | 2 | 30 |
| 724 | 3 | 2 | 114 | 2.6 | 0.35 | 1.05 | 0.80 | 0.40 | 17 | 3 | 17 |
| 725 | 3 | 2 | 115 | 2.7 | 0.10 | 1.25 | 0.85 | 0.45 | 18 | 2 | 18 |
| 726 | 3 | 2 | 116 | 2.3 | 0.25 | 0.80 | 1.05 | 0.55 | 15 | 2 | 15 |
| 727 | 3 | 2 | 117 | 2.0 | 0.15 | 0.85 | 0.70 | 0.30 | 16 | 2 | 16 |
| 728 | 3 | 2 | 118 | 8.3 | 1.25 | 2.50 | 0.65 | 0.30 | 36 | 6 | 36 |
| 729 | 3 | 2 | 119 | 1.5 | 0.10 | 0.65 | 0.75 | 0.35 | 12 | 2 | 12 |
| 730 | 3 | 2 | 120 | 1.7 | 0.10 | 0.70 | 0.40 | 0.20 | 14 | 4 | 14 |
| 731 | 3 | 2 | 121 | 1.3 | 0.15 | 0.70 | 0.70 | 0.40 | 14 | 2 | 14 |
| 732 | 3 | 2 | 122 | 4.7 | 0.95 | 1.25 | 0.40 | 0.20 | 27 | 7 | 27 |
| 733 | 3 | 2 | 123 | 6.3 | 0.95 | 1.85 | 0.60 | 0.35 | 33 | 6 | 33 |
| 734 | 3 | 2 | 124 | 6.3 | 0.85 | 2.10 | 0.80 | 0.45 | 35 | 7 | 35 |
| 735 | 3 | 2 | 125 | 2.6 | 0.25 | 1.10 | 0.55 | 0.30 | 22 | 5 | 22 |
| 736 | 3 | 2 | 126 | 5.2 | 0.75 | 1.80 | 0.55 | 0.30 | 34 | 11 | 34 |
| 737 | 3 | 2 | 127 | 5.4 | 1.05 | 1.75 | 0.60 | 0.25 | 27 | 6 | 27 |
| 738 | 3 | 2 | 128 | 3.2 | 0.55 | 1.25 | 0.30 | 0.15 | 25 | 10 | 25 |
| 739 | 3 | 2 | 129 | 4.8 | 0.80 | 1.35 | 0.45 | 0.20 | 27 | 6 | 27 |
| 740 | 3 | 2 | 130 | 6.4 | 0.85 | 2.00 | 0.80 | 0.40 | 28 | 7 | 28 |
| 741 | 3 | 2 | 131 | 2.1 | 0.10 | 1.00 | 0.70 | 0.40 | 15 | 3 | 15 |
| 742 | 3 | 2 | 132 | 8.6 | 1.10 | 3.10 | 0.75 | 0.30 | 34 | 2 | 34 |
| 743 | 3 | 2 | 133 | 7.7 | 1.65 | 1.35 | 0.70 | 0.30 | 33 | 4 | 33 |
| 744 | 3 | 2 | 134 | 7.6 | 1.10 | 1.65 | 0.50 | 0.25 | 31 | 4 | 31 |
| 745 | 3 | 2 | 135 | 6.4 | 1.20 | 1.95 | 0.45 | 0.20 | 30 | 5 | 30 |
| 746 | 3 | 2 | 136 | 7.2 | 1.45 | 2.05 | 0.65 | 0.30 | 38 | 6 | 38 |
| 747 | 3 | 2 | 137 | 6.7 | 0.95 | 2.00 | 0.50 | 0.25 | 31 | 6 | 31 |
| 748 | 3 | 2 | 138 | 3.7 | 0.65 | 1.35 | 0.60 | 0.30 | 25 | 3 | 25 |
| 749 | 3 | 2 | 139 | 6.0 | 0.60 | 2.15 | 0.45 | 0.20 | 33 | 7 | 33 |
| 750 | 3 | 2 | 140 | 4.6 | 0.65 | 1.35 | 0.40 | 0.25 | 30 | 8 | 30 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 751 | 3 | 2 | 141 | 6.7 | 1.45 | 1.40 | 0.55 | 0.25 | 37 | 7 | 37 |
| 752 | 3 | 2 | 142 | 4.3 | 0.70 | 1.30 | 0.35 | 0.20 | 29 | 7 | 29 |
| 753 | 3 | 2 | 143 | 5.4 | 0.80 | 1.60 | 0.40 | 0.20 | 34 | 7 | 34 |
| 754 | 3 | 2 | 144 | 6.5 | 1.00 | 2.05 | 0.55 | 0.25 | 33 | 6 | 33 |
| 755 | 3 | 2 | 145 | 6.0 | 0.95 | 1.70 | 0.50 | 0.25 | 41 | 9 | 41 |
| 756 | 3 | 2 | 146 | 6.3 | 1.25 | 1.70 | 0.50 | 0.25 | 34 | 7 | 34 |
| 757 | 3 | 2 | 147 | 4.0 | 0.65 | 1.20 | 0.35 | 0.15 | 28 | 8. | 28 |
| 758 | 3 | 2 | 148 | 5.3 | 0.95 | 1.40 | 0.60 | 0.30 | 31 | 4 | 31 |
| 759 | 3 | 2 | 149 | 2.0 | 0.35 | 0.65 | 0.45 | 0.20 | 16 | 4 | 16 |
| 760 | 3 | 2 | 150 | 4.9 | 0.75 | 1.50 | 0.55 | 0.30 | 26 | 4 | 26 |
| 761 | 3 | 2 | 151 | 8.0 | 1.55 | 1.90 | 0.60 | 0.25 | 37 | 10 | 37 |
| 762 | 3 | 2 | 152 | 5.5 | 0.95 | 1.60 | 0.55 | 0.25 | 31 | 5 | 31 |
| 763 | 3 | 2 | 153 | 2.6 | 0.45 | 0.80 | 0.45 | 0.20 | 23 | 5 | 23 |
| 764 | 3 | 2 | 154 | 7.1 | 1.20 | 1.90 | 0.75 | 0.40 | 36 | 4 | 36 |
| 765 | 3 | 2 | 155 | 5.0 | 0.50 | 2.00 | 0.60 | 0.25 | 29 | 5 | 29 |
| 766 | 3 | 2 | 156 | 4.8 | 0.70 | 1.50 | 0.55 | 0.25 | 28 | 6 | 28 |
| 767 | 3 | 2 | 157 | 5.0 | 1.00 | 1.55 | 0.60 | 0.30 | 31 | 6 | 31 |
| 768 | 3 | 2 | 158 | 6.9 | 0.90 | 2.20 | 0.70 | 0.35 | 32 | 8 | 32 |
| 769 | 3 | 2 | 159 | 4.7 | 0.60 | 1.30 | 0.45 | 0.25 | 29 | 9 | 29 |
| 770 | 3 | 2 | 160 | 2.3 | 0.15 | 1.05 | 0.50 | 0.25 | 17 | 3 | 17 |
| 771 | 3 | 2 | 161 | 6.4 | 1.30 | 1.70 | 0.60 | 0.30 | 35 | 7 | 35 |
| 772 | 3 | 2 | 162 | 4.8 | 0.60 | 1.45 | 0.45 | 0.25 | 29 | 8 | 29 |
| 773 | 3 | 2 | 163 | 2.3 | 0.15 | 1.00 | 0.45 | 0.20 | 17 | 4 | 17 |
| 774 | 3 | 2 | 164 | 4.7 | 0.90 | 1.45 | 0.45 | 0.20 | 32 | 13 | 32 |
| 775 | 3 | 2 | 165 | 5.8 | 0.75 | 1.80 | 0.50 | 0.25 | 36 | 6 | 36 |
| 776 | 3 | 2 | 166 | 6.5 | 0.85 | 1.95 | 0.40 | 0.20 | 36 | 7 | 36 |
| 777 | 3 | 2 | 167 | 5.3 | 0.65 | 2.05 | 0.55 | 0.25 | 33 | 9 | 33 |
| 778 | 3 | 2 | 168 | 7.3 | 1.00 | 2.10 | 0.50 | 0.25 | 35 | 5 | 35 |
| 779 | 3 | 2 | 169 | 5.9 | 1.20 | 1.45 | 0.40 | 0.20 | 32 | 8 | 32 |
| 780 | 3 | 2 | 170 | 7.1 | 1.25 | 2.00 | 0.40 | 0.15 | 36 | 9 | 36 |
| 781 | 3 | 2 | 171 | 3.9 | 0.35 | 1.15 | 0.30 | 0.15 | 25 | 7 | 25 |
| 782 | 3 | 2 | 172 | 6.4 | 0.55 | 1.95 | 0.30 | 0.15 | 38 | 11 | 38 |
| 783 | 3 | 2 | 173 | 6.9 | 0.95 | 1.95 | 0.60 | 0.30 | 39 | 8 | 39 |
| 784 | 3 | 2 | 174 | 6.0 | 0.90 | 1.85 | 0.45 | 0.25 | 33 | 9 | 33 |
| 785 | 3 | 2 | 175 | 7.3 | 0.75 | 2.05 | 0.45 | 0.20 | 37 | 8 | 37 |
| 786 | 3 | 3 | 177 | 4.8 | 0.65 | 1.50 | 1.00 | 0.50 | 21 | 3 | 21 |
| 787 | 3 | 3 | 180 | 4.8 | 0.45 | 1.50 | 0.70 | 0.35 | 23 | 4 | 23 |
| 788 | 3 | 3 | 181 | 2.7 | 0.30 | 0.95 | 0.55 | 0.30 | 18 | 4 | 18 |
| 789 | 3 | 3 | 182 | 3.0 | 0.35 | 0.90 | 0.55 | 0.30 | 19 | 3 | 19 |
| 790 | 3 | 3 | 183 | 3.2 | 0.55 | 1.00 | 0.60 | 0.30 | 21 | 6 | 21 |
| 791 | 3 | 3 | 184 | 3.0 | 0.45 | 1.10 | 0.60 | 0.30 | 23 | 6 | 23 |
| 792 | 3 | 3 | 186 | 2.4 | 0.20 | 0.85 | 0.35 | 0.15 | 20 | 4 | 20 |
| 793 | 3 | 3 | 187 | 3.3 | 0.35 | 1.30 | 0.60 | 0.30 | 24 | 4 | 24 |
| 794 | 3 | 3 | 188 | 7.8 | 1.15 | 2.25 | 0.65 | 0.30 | 36 | 6 | 36 |
| 795 | 3 | 3 | 189 | 4.5 | 0.45 | 1.50 | 0.65 | 0.35 | 24 | 4 | 24 |
| 796 | 3 | 3 | 190 | 4.5 | 0.50 | 1.65 | 0.75 | 0.40 | 27 | 3 | 27 |
| 797 | 3 | 3 | 193 | 5.4 | 0.90 | 1.30 | 0.40 | 0.20 | 27 | 7 | 27 |
| 798 | 3 | 3 | 194 | 7.6 | 1.70 | 1.60 | 0.85 | 0.50 | 36 | 7 | 36 |
| 799 | 3 | 3 | 195 | 3.2 | 0.15 | 1.35 | 0.90 | 0.45 | 19 | 3 | 19 |
| 800 | 3 | 3 | 197 | 4.0 | 0.10 | 1.50 | 0.85 | 0.45 | 20 | 3 | 20 |
| 801 | 3 | 3 | 198 | 4.5 | 1.00 | 1.15 | 0.45 | 0.20 | 21 | 5 | 21 |
| 802 | 3 | 3 | 200 | 2.6 | 0.25 | 1.05 | 0.60 | 0.30 | 18 | 4 | 18 |
| 803 | 3 | 3 | 202 | 2.7 | 0.40 | 0.75 | 0.40 | 0.20 | 17 | 4 | 17 |
| 804 | 3 | 3 | 203 | 3.9 | 0.60 | 1.40 | 0.90 | 0.50 | 24 | 4 | 24 |
| 805 | 3 | 3 | 204 | 4.4 | 0.60 | 1.40 | 0.90 | 0.40 | 22 | 4 | 22 |
| 806 | 3 | 3 | 205 | 2.4 | 0.20 | 0.95 | 0.60 | 0.30 | 17 | 3 | 17 |
| 807 | 3 | 3 | 206 | 4.8 | 0.50 | 1.60 | 0.80 | 0.55 | 26 | 2 | 26 |
| 808 | 3 | 3 | 207 | 4.2 | 0.40 | 1.50 | 0.60 | 0.30 | 29 | 5 | 29 |
| 809 | 3 | 3 | 208 | 5.2 | 0.65 | 1.30 | 0.65 | 0.30 | 33 | 4 | 33 |
| 810 | 3 | 3 | 209 | 5.8 | 0.60 | 2.10 | 0.80 | 0.35 | 27 | 4 | 27 |
| 811 | 3 | 3 | 210 | 2.4 | 0.35 | 0.90 | 0.55 | 0.30 | 16 | 3 | 16 |
| 812 | 3 | 3 | 211 | 4.7 | 0.70 | 1.80 | 0.70 | 0.30 | 22 | 3 | 22 |
| 813 | 3 | 3 | 213 | 4.7 | 0.60 | 1.75 | 0.80 | 0.35 | 26 | 4 | 26 |
| 814 | 3 | 3 | 214 | 5.6 | 0.70 | 1.60 | 0.70 | 0.30 | 32 | 6 | 32 |
| 815 | 3 | 3 | 215 | 8.0 | 1.85 | 1.90 | 0.55 | 0.25 | 39 | 8 | 39 |
| 816 | 3 | 3 | 216 | 4.8 | 0.50 | 1.50 | 0.60 | 0.30 | 28 | 3 | 28 |
| 817 | 3 | 3 | 217 | 2.7 | 0.10 | 1.25 | 0.75 | 0.40 | 16 | 2 | 16 |
| 818 | 3 | 3 | 219 | 5.7 | 0.90 | 1.60 | 0.70 | 0.40 | 32 | 6 | 32 |
| 819 | 3 | 3 | 220 | 4.4 | 0.70 | 1.35 | 0.40 | 0.20 | 30 | 7 | 30 |
| 820 | 3 | 3 | 221 | 4.1 | 0.15 | 1.65 | 0.40 | 0.20 | 29 | 6 | 29 |
| 821 | 3 | 3 | 222 | 8.3 | 2.10 | 2.10 | 0.70 | 0.40 | 40 | 4 | 40 |
| 822 | 3 | 3 | 223 | 6.8 | 0.95 | 1.90 | 0.70 | 0.35 | 41 | 11 | 41 |
| 823 | 3 | 3 | 224 | 7.3 | 0.70 | 2.80 | 0.80 | 0.45 | 34 | 3 | 34 |
| 824 | 3 | 3 | 227 | 7.2 | 0.80 | 2.20 | 0.50 | 0.25 | 39 | 3 | 39 |
| 825 | 3 | 3 | 228 | 4.1 | 0.30 | 1.50 | 0.60 | 0.40 | 29 | 4 | 29 |
| 826 | 3 | 3 | 229 | 7.4 | 0.60 | 2.80 | 0.75 | 0.35 | 40 | 4 | 40 |
| 827 | 3 | 3 | 232 | 2.8 | 0.35 | 1.35 | 0.70 | 0.35 | 20 | 4 | 20 |
| 828 | 3 | 3 | 233 | 2.9 | 0.35 | 1.00 | 0.60 | 0.25 | 20 | 4 | 20 |
| 829 | 3 | 3 | 234 | 3.1 | 0.30 | 1.00 | 0.55 | 0.30 | 19 | 3 | 19 |
| 830 | 3 | 3 | 235 | 3.6 | 0.30 | 1.30 | 0.50 | 0.25 | 22 | 4 | 22 |
| 831 | 3 | 3 | 236 | 4.4 | 0.65 | 1.40 | 0.60 | 0.25 | 22 | 4 | 22 |
| 832 | 3 | 3 | 237 | 4.6 | 0.80 | 1.05 | 0.40 | 0.20 | 27 | 5 | 27 |
| 833 | 3 | 3 | 238 | 5.0 | 0.85 | 1.50 | 0.70 | 0.40 | 25 | 5 | 25 |
| 834 | 3 | 3 | 239 | 4.2 | 0.35 | 1.60 | 0.60 | 0.30 | 23 | 4 | 23 |
| 835 | 3 | 3 | 240 | 4.0 | 0.60 | 1.20 | 0.60 | 0.30 | 25 | 6 | 25 |
| 836 | 3 | 3 | 241 | 2.5 | 0.25 | 0.85 | 0.55 | 0.25 | 20 | 4 | 20 |
| 837 | 3 | 3 | 242 | 3.7 | 0.60 | 1.05 | 0.40 | 0.20 | 24 | 5 | 24 |
| 838 | 3 | 3 | 243 | 3.5 | 0.25 | 1.05 | 0.55 | 0.25 | 19 | 4 | 19 |
| 839 | 3 | 3 | 244 | 5.1 | 0.55 | 1.45 | 0.60 | 0.30 | 29 | 5 | 29 |
| 840 | 3 | 3 | 245 | 7.4 | 1.00 | 2.10 | 0.55 | 0.25 | 35 | 5 | 35 |
| 841 | 3 | 3 | 246 | 7.0 | 1.00 | 2.00 | 0.60 | 0.20 | 37 | 5 | 37 |
| 842 | 3 | 3 | 247 | 6.2 | 0.65 | 2.00 | 0.60 | 0.30 | 35 | 4 | 35 |
| 843 | 3 | 3 | 248 | 4.8 | 0.70 | 1.30 | 0.60 | 0.30 | 31 | 5 | 31 |
| 844 | 3 | 3 | 250 | 4.9 | 0.50 | 1.90 | 0.70 | 0.25 | 23 | 3 | 23 |
| 845 | 3 | 3 | 251 | 3.9 | 0.50 | 1.20 | 0.70 | 0.40 | 19 | 5 | 19 |
| 846 | 3 | 3 | 253 | 4.4 | 0.75 | 1.20 | 0.60 | 0.30 | 21 | 3 | 21 |
| 847 | 3 | 3 | 254 | 2.9 | 0.45 | 1.05 | 0.60 | 0.30 | 20 | 4 | 20 |
| 848 | 3 | 3 | 255 | 2.8 | 0.35 | 1.00 | 0.50 | 0.25 | 19 | 5 | 19 |
| 849 | 3 | 3 | 257 | 3.5 | 0.50 | 1.15 | 0.70 | 0.40 | 20 | 3 | 20 |
| 850 | 3 | 3 | 259 | 3.3 | 0.50 | 1.00 | 0.70 | 0.50 | 19 | 4 | 19 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 851 | 3 | 3 | 260 | 2.6 | 0.40 | 0.80 | 0.50 | 0.25 | 15 | 3 | 15 |
| 852 | 3 | 3 | 261 | 4.6 | 0.65 | 1.35 | 0.70 | 0.35 | 24 | 4 | 24 |
| 853 | 3 | 3 | 262 | 2.7 | 0.10 | 1.20 | 0.50 | 0.30 | 18 | 4 | 18 |
| 854 | 3 | 3 | 263 | 6.5 | 1.15 | 1.50 | 0.50 | 0.25 | 31 | 5 | 31 |
| 855 | 3 | 3 | 264 | 3.1 | 0.50 | 1.05 | 0.40 | 0.20 | 25 | 4 | 25 |
| 856 | 3 | 3 | 265 | 5.5 | 0.60 | 1.90 | 0.60 | 0.35 | 31 | 6 | 31 |
| 857 | 3 | 3 | 266 | 7.8 | 1.00 | 2.40 | 0.60 | 0.30 | 31 | 7 | 31 |
| 858 | 3 | 4 | 267 | 3.9 | 0.40 | 1.15 | 0.40 | 0.20 | 29 | 5 | 29 |
| 859 | 3 | 4 | 268 | 5.5 | 1.35 | 1.05 | 0.40 | 0.20 | 30 | 10 | 30 |
| 860 | 3 | 4 | 269 | 5.4 | 0.60 | 1.95 | 0.45 | 0.20 | 32 | 7 | 32 |
| 861 | 3 | 4 | 270 | 7.5 | 1.95 | 1.60 | 0.60 | 0.30 | 35 | 6 | 35 |
| 862 | 3 | 4 | 271 | 4.6 | 0.70 | 1.35 | 0.50 | 0.25 | 29 | 4 | 29 |
| 863 | 3 | 4 | 272 | 4.7 | 1.00 | 1.30 | 0.40 | 0.20 | 30 | 9 | 30 |
| 864 | 3 | 4 | 273 | 6.7 | 0.90 | 2.15 | 0.55 | 0.30 | 35 | 7 | 35 |
| 865 | 3 | 4 | 274 | 7.8 | 1.40 | 2.25 | 0.65 | 0.35 | 38 | 4 | 38 |
| 866 | 3 | 4 | 276 | 7.6 | 1.25 | 1.70 | 0.50 | 0.30 | 37 | 4 | 37 |
| 867 | 3 | 4 | 277 | 2.5 | 0.50 | 0.90 | 0.65 | 0.30 | 22 | 4 | 22 |
| 868 | 3 | 4 | 278 | 1.8 | 0.00 | 0.80 | 0.60 | 0.30 | 13 | 2 | 13 |
| 869 | 3 | 4 | 279 | 1.9 | 0.20 | 0.80 | 0.45 | 0.20 | 16 | 3 | 16 |
| 870 | 3 | 4 | 280 | 5.1 | 0.50 | 1.90 | 0.50 | 0.25 | 23 | 3 | 23 |
| 871 | 3 | 4 | 281 | 2.9 | 0.30 | 0.95 | 0.55 | 0.20 | 21 | 3 | 21 |
| 872 | 3 | 4 | 282 | 4.3 | 0.70 | 1.30 | 0.60 | 0.30 | 26 | 4 | 26 |
| 873 | 3 | 4 | 283 | 5.5 | 0.60 | 2.20 | 0.65 | 0.30 | 26 | 4 | 26 |
| 874 | 3 | 4 | 284 | 8.8 | 1.10 | 2.45 | 0.55 | 0.25 | 34 | 2 | 34 |
| 875 | 3 | 4 | 285 | 7.3 | 0.70 | 2.65 | 0.65 | 0.25 | 32 | 3 | 32 |
| 876 | 3 | 4 | 286 | 2.4 | 0.25 | 0.80 | 0.65 | 0.30 | 17 | 3 | 17 |
| 877 | 3 | 4 | 287 | 4.7 | 0.45 | 2.05 | 0.60 | 0.30 | 25 | 4 | 25 |
| 878 | 3 | 4 | 288 | 4.3 | 0.65 | 1.35 | 0.50 | 0.25 | 24 | 4 | 24 |
| 879 | 3 | 4 | 289 | 3.9 | 0.55 | 1.20 | 0.65 | 0.35 | 23 | 3 | 23 |
| 880 | 3 | 4 | 290 | 2.9 | 0.20 | 1.00 | 0.70 | 0.45 | 18 | 3 | 18 |
| 881 | 3 | 4 | 291 | 5.3 | 0.70 | 1.50 | 0.65 | 0.30 | 30 | 4 | 30 |
| 882 | 3 | 4 | 292 | 6.9 | 0.70 | 2.25 | 0.60 | 0.30 | 29 | 6 | 29 |
| 883 | 3 | 4 | 293 | 6.0 | 0.70 | 2.25 | 0.60 | 0.30 | 36 | 7 | 36 |
| 884 | 3 | 4 | 294 | 4.0 | 0.40 | 1.80 | 0.85 | 0.40 | 26 | 4 | 26 |
| 885 | 3 | 4 | 295 | 2.8 | 0.10 | 1.10 | 0.70 | 0.35 | 18 | 4 | 18 |
| 886 | 3 | 4 | 296 | 4.4 | 0.60 | 1.35 | 0.55 | 0.30 | 27 | 6 | 27 |
| 887 | 3 | 4 | 297 | 4.0 | 0.25 | 1.15 | 0.55 | 0.25 | 19 | 4 | 19 |
| 888 | 3 | 4 | 298 | 2.8 | 0.40 | 0.95 | 0.80 | 0.35 | 20 | 3 | 20 |
| 889 | 3 | 4 | 299 | 3.9 | 0.25 | 1.30 | 0.65 | 0.30 | 19 | 3 | 19 |
| 890 | 3 | 4 | 300 | 3.3 | 0.30 | 1.20 | 0.60 | 0.30 | 20 | 3 | 20 |
| 891 | 3 | 4 | 301 | 2.1 | 0.20 | 0.85 | 0.55 | 0.25 | 15 | 4 | 15 |
| 892 | 3 | 4 | 302 | 1.9 | 0.15 | 0.75 | 0.45 | 0.20 | 17 | 5 | 17 |
| 893 | 3 | 4 | 303 | 4.7 | 0.50 | 1.40 | 0.65 | 0.35 | 25 | 4 | 25 |
| 894 | 3 | 4 | 304 | 5.1 | 0.50 | 1.80 | 0.60 | 0.30 | 27 | 5 | 27 |
| 895 | 3 | 4 | 306 | 5.3 | 0.90 | 0.80 | 0.45 | 0.25 | 30 | 5 | 30 |
| 896 | 3 | 4 | 307 | 7.7 | 1.30 | 1.75 | 0.45 | 0.20 | 35 | 5 | 35 |
| 897 | 3 | 4 | 308 | 2.7 | 0.35 | 0.90 | 0.40 | 0.25 | 23 | 4 | 23 |
| 898 | 3 | 4 | 309 | 4.2 | 0.60 | 1.50 | 0.65 | 0.30 | 28 | 5 | 28 |
| 899 | 3 | 4 | 310 | 2.9 | 0.30 | 1.10 | 0.55 | 0.25 | 20 | 2 | 20 |
| 900 | 3 | 4 | 311 | 8.1 | 0.20 | 3.80 | 0.70 | 0.30 | 31 | 3 | 31 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 901 | 3 | 4 | 312 | 2.5 | 0.35 | 0.95 | 0.75 | 0.30 | 16 | 2 | 16 |
| 902 | 3 | 4 | 313 | 6.4 | 0.85 | 2.15 | 0.60 | 0.25 | 29 | 3 | 29 |
| 903 | 3 | 4 | 314 | 8.2 | 1.55 | 1.95 | 0.60 | 0.30 | 38 | 6 | 38 |
| 904 | 3 | 4 | 315 | 2.8 | 0.30 | 1.05 | 0.60 | 0.30 | 21 | 4 | 21 |
| 905 | 3 | 4 | 316 | 4.5 | 0.50 | 1.85 | 0.70 | 0.30 | 23 | 4 | 23 |
| 906 | 3 | 4 | 317 | 4.1 | 0.50 | 1.40 | 0.75 | 0.35 | 27 | 4 | 27 |
| 907 | 3 | 4 | 318 | 6.9 | 0.85 | 2.90 | 0.85 | 0.40 | 36 | 3 | 36 |
| 908 | 3 | 4 | 319 | 5.7 | 0.60 | 1.95 | 0.65 | 0.35 | 29 | 5 | 29 |
| 909 | 3 | 4 | 320 | 5.3 | 0.70 | 2.05 | 0.90 | 0.45 | 29 | 4 | 29 |
| 910 | 3 | 4 | 321 | 5.0 | 0.50 | 1.85 | 0.55 | 0.25 | 29 | 4 | 29 |
| 911 | 3 | 4 | 322 | 4.5 | 0.80 | 1.15 | 0.55 | 0.30 | 26 | 3 | 26 |
| 912 | 3 | 4 | 323 | 4.2 | 0.65 | 1.15 | 0.40 | 0.20 | 21 | 4 | 21 |
| 913 | 3 | 4 | 324 | 2.4 | 0.15 | 0.90 | 0.45 | 0.25 | 18 | 4 | 18 |
| 914 | 3 | 4 | 325 | 6.6 | 1.15 | 2.60 | 0.85 | 0.55 | 35 | 5 | 35 |
| 915 | 3 | 4 | 326 | 5.0 | 0.10 | 2.05 | 0.50 | 0.30 | 36 | 5 | 36 |
| 916 | 3 | 4 | 327 | 4.7 | 0.65 | 1.35 | 0.55 | 0.30 | 30 | 9 | 30 |
| 917 | 3 | 4 | 328 | 4.3 | 0.80 | 0.95 | 0.45 | 0.30 | 32 | 8 | 32 |
| 918 | 3 | 4 | 329 | 7.6 | 1.05 | 2.25 | 0.75 | 0.40 | 32 | 4 | 32 |
| 919 | 3 | 4 | 330 | 6.2 | 0.65 | 2.30 | 0.95 | 0.50 | 33 | 4 | 33 |
| 920 | 3 | 4 | 331 | 2.3 | 0.10 | 0.80 | 0.55 | 0.25 | 17 | 3 | 17 |
| 921 | 3 | 4 | 332 | 1.7 | 0.05 | 0.80 | 0.55 | 0.25 | 13 | 2 | 13 |
| 922 | 3 | 4 | 333 | 4.8 | 0.35 | 1.20 | 0.80 | 0.45 | 27 | 3 | 27 |
| 923 | 3 | 4 | 334 | 3.5 | 0.20 | 1.45 | 0.80 | 0.40 | 23 | 4 | 23 |
| 924 | 3 | 4 | 335 | 3.9 | 0.40 | 1.40 | 0.60 | 0.25 | 26 | 6 | 26 |
| 925 | 3 | 4 | 336 | 5.1 | 0.70 | 2.10 | 0.95 | 0.45 | 25 | 5 | 25 |
| 926 | 3 | 4 | 337 | 10.1 | 1.40 | 2.50 | 0.90 | 0.40 | 40 | 4 | 40 |
| 927 | 3 | 4 | 338 | 5.1 | 0.20 | 2.05 | 0.80 | 0.40 | 26 | 4 | 26 |
| 928 | 3 | 4 | 339 | 5.0 | 0.95 | 1.65 | 0.60 | 0.30 | 29 | 4 | 29 |
| 929 | 3 | 4 | 340 | 2.8 | 0.45 | 0.80 | 0.40 | 0.20 | 21 | 5 | 21 |
| 930 | 3 | 4 | 341 | 6.1 | 0.80 | 1.90 | 0.60 | 0.30 | 34 | 9 | 34 |
| 931 | 3 | 5 | 342 | 5.6 | 0.30 | 1.20 | 0.55 | 0.30 | 26 | 4 | 26 |
| 932 | 3 | 5 | 343 | 5.5 | 0.50 | 2.00 | 0.65 | 0.30 | 27 | 4 | 27 |
| 933 | 3 | 5 | 344 | 5.0 | 0.40 | 1.75 | 0.60 | 0.35 | 24 | 1 | 24 |
| 934 | 3 | 5 | 345 | 8.2 | 0.65 | 3.60 | 0.75 | 0.20 | 35 | 4 | 35 |
| 935 | 3 | 5 | 346 | 3.9 | 0.45 | 1.40 | 0.60 | 0.35 | 27 | 4 | 27 |
| 936 | 3 | 5 | 347 | 4.2 | 0.50 | 1.00 | 0.30 | 0.15 | 26 | 4 | 26 |
| 937 | 3 | 5 | 348 | 5.3 | 0.55 | 1.90 | 1.10 | 0.60 | 31 | 4 | 31 |
| 938 | 3 | 5 | 349 | 2.9 | 0.10 | 1.10 | 0.60 | 0.30 | 16 | 2 | 16 |
| 939 | 3 | 5 | 350 | 5.1 | 0.75 | 1.50 | 0.75 | 0.40 | 29 | 5 | 29 |
| 940 | 3 | 5 | 351 | 2.7 | 0.30 | 0.95 | 0.50 | 0.25 | 19 | 3 | 19 |
| 941 | 3 | 5 | 352 | 2.1 | 0.15 | 0.75 | 0.65 | 0.30 | 16 | 3 | 16 |
| 942 | 3 | 5 | 353 | 2.0 | 0.00 | 0.75 | 0.70 | 0.35 | 13 | 4 | 13 |
| 943 | 3 | 5 | 354 | 1.3 | 0.00 | 0.55 | 0.70 | 0.35 | 9 | 2 | 9 |
| 944 | 3 | 5 | 355 | 3.6 | 0.35 | 1.65 | 0.80 | 0.50 | 17 | 3 | 17 |
| 945 | 3 | 5 | 356 | 2.5 | 0.10 | 1.25 | 0.60 | 0.30 | 15 | 3 | 15 |
| 946 | 3 | 5 | 357 | 4.7 | 0.40 | 1.75 | 0.95 | 0.50 | 22 | 4 | 22 |
| 947 | 3 | 5 | 358 | 1.9 | 0.15 | 0.70 | 0.50 | 0.30 | 14 | 2 | 14 |
| 948 | 3 | 5 | 359 | 1.0 | 0.15 | 0.50 | 0.75 | 0.40 | 9 | 1 | 9 |
| 949 | 3 | 5 | 360 | 2.4 | 0.10 | 1.00 | 0.75 | 0.40 | 17 | 3 | 17 |
| 950 | 3 | 5 | 361 | 2.0 | 0.10 | 0.80 | 0.70 | 0.40 | 13 | 2 | 13 |

Listing of  Ident (1990) + Observed (1991-97)          57
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 951 | 3 | 5 | 362 | 4.0 | 0.55 | 1.40 | 0.60 | 0.25 | 22 | 4 | 22 |
| 952 | 3 | 5 | 363 | 5.0 | 0.50 | 2.00 | 1.10 | 0.60 | 26 | 3 | 26 |
| 953 | 3 | 5 | 364 | 5.9 | 0.70 | 1.70 | 0.70 | 0.35 | 30 | 3 | 30 |
| 954 | 3 | 5 | 365 | 4.3 | 0.50 | 1.20 | 0.60 | 0.30 | 22 | 3 | 22 |
| 955 | 3 | 5 | 366 | 4.7 | 0.65 | 1.85 | 0.80 | 0.35 | 29 | 6 | 29 |
| 956 | 3 | 5 | 367 | 6.1 | 0.50 | 2.10 | 0.70 | 0.25 | 32 | 2 | 32 |
| 957 | 3 | 5 | 368 | 6.2 | 0.70 | 2.20 | 0.90 | 0.45 | 27 | 5 | 27 |
| 958 | 3 | 5 | 369 | 1.6 | 0.30 | 0.65 | 0.50 | 0.20 | 15 | 3 | 15 |
| 959 | 3 | 5 | 370 | 6.3 | 1.10 | 1.20 | 0.60 | 0.30 | 33 | 2 | 33 |
| 960 | 3 | 5 | 371 | 4.2 | 0.30 | 1.40 | 0.60 | 0.25 | 24 | 4 | 24 |
| 961 | 3 | 5 | 372 | 4.3 | 0.30 | 1.45 | 0.70 | 0.40 | 25 | 3 | 25 |
| 962 | 3 | 5 | 373 | 3.8 | 0.20 | 1.40 | 0.60 | 0.30 | 20 | 3 | 20 |
| 963 | 3 | 5 | 374 | 4.8 | 0.90 | 1.50 | 1.00 | 0.50 | 23 | 4 | 23 |
| 964 | 3 | 5 | 375 | 5.6 | 0.50 | 1.50 | 0.60 | 0.30 | 24 | 4 | 24 |
| 965 | 3 | 5 | 376 | 5.6 | 0.80 | 1.90 | 0.90 | 0.50 | 24 | 3 | 24 |
| 966 | 3 | 5 | 377 | 1.2 | 0.05 | 0.50 | 0.50 | 0.30 | 8 | 1 | 8 |
| 967 | 3 | 5 | 378 | 2.4 | 0.25 | 0.75 | 0.50 | 0.25 | 18 | 3 | 18 |
| 968 | 3 | 5 | 379 | 3.8 | 0.40 | 1.30 | 0.60 | 0.35 | 22 | 2 | 22 |
| 969 | 3 | 5 | 380 | 4.6 | 0.80 | 1.40 | 1.00 | 0.45 | 24 | 5 | 24 |
| 970 | 3 | 5 | 381 | 1.7 | 0.05 | 0.80 | 0.60 | 0.25 | 19 | 3 | 19 |
| 971 | 3 | 5 | 382 | 1.7 | 0.15 | 0.70 | 0.60 | 0.35 | 14 | 3 | 14 |
| 972 | 3 | 5 | 383 | 5.5 | 1.00 | 1.40 | 0.55 | 0.30 | 30 | 4 | 30 |
| 973 | 3 | 5 | 384 | 5.1 | 0.90 | 1.50 | 0.70 | 0.40 | 24 | 5 | 24 |
| 974 | 3 | 5 | 385 | 5.0 | 0.70 | 1.50 | 0.60 | 0.30 | 25 | 6 | 25 |
| 975 | 3 | 5 | 386 | 1.7 | 0.15 | 0.65 | 0.40 | 0.20 | 16 | 4 | 16 |
| 976 | 3 | 5 | 387 | 3.8 | 0.50 | 1.50 | 0.60 | 0.30 | 20 | 3 | 20 |
| 977 | 3 | 5 | 388 | 1.6 | 0.05 | 0.65 | 0.45 | 0.25 | 14 | 2 | 14 |
| 978 | 3 | 5 | 389 | 6.2 | 0.75 | 2.15 | 1.10 | 0.55 | 29 | 5 | 29 |
| 979 | 3 | 5 | 390 | 4.4 | 0.50 | 1.20 | 0.70 | 0.30 | 23 | 3 | 23 |
| 980 | 3 | 5 | 391 | 7.7 | 0.80 | 2.50 | 0.80 | 0.40 | 32 | 3 | 32 |
| 981 | 3 | 5 | 392 | 3.8 | 0.55 | 1.20 | 0.60 | 0.40 | 24 | 5 | 24 |
| 982 | 3 | 5 | 393 | 2.5 | 0.20 | 0.90 | 0.50 | 0.25 | 19 | 4 | 19 |
| 983 | 3 | 5 | 394 | 2.8 | 0.40 | 0.80 | 0.50 | 0.25 | 19 | 4 | 19 |
| 984 | 3 | 5 | 395 | 5.7 | 1.00 | 2.00 | 1.00 | 0.40 | 21 | 4 | 21 |
| 985 | 3 | 5 | 396 | 5.9 | 1.10 | 1.50 | 0.30 | 0.15 | 27 | 4 | 27 |
| 986 | 3 | 5 | 397 | 2.7 | 0.30 | 1.00 | 0.60 | 0.30 | 23 | 2 | 23 |
| 987 | 3 | 5 | 398 | 3.1 | 0.40 | 1.20 | 0.80 | 0.45 | 18 | 3 | 18 |
| 988 | 3 | 5 | 399 | 3.9 | 0.50 | 1.50 | 0.70 | 0.40 | 24 | 3 | 24 |
| 989 | 3 | 5 | 400 | 2.7 | 0.20 | 1.10 | 0.55 | 0.30 | 21 | 4 | 21 |
| 990 | 3 | 5 | 401 | 3.7 | 0.50 | 1.00 | 0.65 | 0.40 | 24 | 6 | 24 |
| 991 | 3 | 5 | 402 | 6.2 | 0.55 | 2.10 | 0.75 | 0.40 | 29 | 5 | 29 |
| 992 | 3 | 5 | 403 | 3.6 | 0.25 | 1.35 | 0.75 | 0.50 | 21 | 4 | 21 |
| 993 | 3 | 5 | 404 | 4.8 | 0.80 | 1.90 | 0.90 | 0.45 | 23 | 4 | 23 |
| 994 | 3 | 5 | 405 | 1.9 | 0.10 | 0.90 | 0.75 | 0.45 | 14 | 3 | 14 |
| 995 | 3 | 5 | 406 | 3.1 | 0.50 | 1.00 | 0.60 | 0.30 | 18 | 6 | 18 |
| 996 | 3 | 5 | 407 | 1.9 | 0.05 | 0.80 | 0.45 | 0.25 | 17 | 6 | 17 |
| 997 | 3 | 5 | 408 | 6.3 | 1.15 | 2.35 | 0.90 | 0.35 | 28 | 5 | 28 |
| 998 | 3 | 5 | 409 | 1.3 | 0.05 | 0.75 | 0.75 | 0.40 | 11 | 1 | 11 |
| 999 | 3 | 5 | 410 | 2.1 | 0.10 | 1.05 | 0.80 | 0.45 | 16 | 3 | 16 |
| 1000 | 3 | 5 | 411 | 6.1 | 0.50 | 2.00 | 0.75 | 0.35 | 29 | 4 | 29 |

Listing of  Ident (1990) + Observed (1991-97)          58
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 1001 | 3 | 5 | 412 | 3.8 | 0.35 | 1.50 | 0.70 | 0.35 | 20 | 3 | 20 |
| 1002 | 3 | 5 | 413 | 3.5 | 0.05 | 1.35 | 0.65 | 0.40 | 22 | 4 | 22 |
| 1003 | 3 | 5 | 414 | 3.9 | 0.60 | 1.20 | 0.60 | 0.30 | 22 | 4 | 22 |
| 1004 | 3 | 5 | 415 | 4.3 | 0.80 | 1.00 | 0.60 | 0.25 | 26 | 4 | 26 |
| 1005 | 3 | 5 | 416 | 3.7 | 0.40 | 1.50 | 1.00 | 0.50 | 21 | 5 | 21 |
| 1006 | 3 | 5 | 417 | 2.3 | 0.25 | 0.85 | 0.50 | 0.25 | 18 | 5 | 18 |
| 1007 | 3 | 5 | 418 | 3.5 | 0.70 | 0.95 | 0.65 | 0.30 | 21 | 3 | 21 |
| 1008 | 3 | 5 | 419 | 3.4 | 0.35 | 1.25 | 0.60 | 0.25 | 21 | 4 | 21 |
| 1009 | 3 | 5 | 420 | 6.3 | 0.75 | 2.25 | 1.00 | 0.40 | 27 | 4 | 27 |
| 1010 | 3 | 5 | 421 | 6.8 | 0.90 | 2.20 | 0.80 | 0.35 | 27 | 4 | 27 |
| 1011 | 3 | 5 | 422 | 3.1 | 0.55 | 1.00 | 0.70 | 0.35 | 20 | 4 | 20 |
| 1012 | 3 | 5 | 423 | 3.5 | 0.25 | 1.00 | 0.60 | 0.30 | 18 | 3 | 18 |
| 1013 | 3 | 5 | 424 | 2.8 | 0.20 | 1.05 | 0.65 | 0.25 | 19 | 4 | 19 |
| 1014 | 3 | 5 | 425 | 4.5 | 0.75 | 1.30 | 0.75 | 0.40 | 25 | 5 | 25 |
| 1015 | 3 | 5 | 426 | 2.1 | 0.05 | 0.90 | 0.60 | 0.30 | 17 | 3 | 17 |
| 1016 | 3 | 5 | 427 | 2.3 | 0.00 | 1.15 | 0.65 | 0.35 | 17 | 3 | 17 |
| 1017 | 3 | 5 | 428 | 2.1 | 0.10 | 1.00 | 0.70 | 0.35 | 15 | 3 | 15 |
| 1018 | 3 | 5 | 429 | 2.5 | 0.30 | 0.95 | 0.85 | 0.45 | 17 | 4 | 17 |
| 1019 | 3 | 5 | 430 | 5.5 | 0.80 | 2.00 | 1.00 | 0.50 | 25 | 4 | 25 |
| 1020 | 3 | 5 | 431 | 3.5 | 0.30 | 1.60 | 1.00 | 0.55 | 22 | 4 | 22 |
| 1021 | 3 | 5 | 432 | 2.9 | 0.30 | 0.90 | 0.65 | 0.35 | 23 | 4 | 23 |
| 1022 | 3 | 5 | 433 | 4.8 | 0.50 | 1.50 | 0.65 | 0.30 | 26 | 4 | 26 |
| 1023 | 4 | 1 | 434 | 6.0 | 0.65 | 2.00 | 0.80 | 0.35 | 27 | 4 | 27 |
| 1024 | 4 | 1 | 435 | 4.1 | 0.30 | 1.55 | 0.85 | 0.40 | 25 | 2 | 25 |
| 1025 | 4 | 1 | 436 | 4.3 | 0.40 | 1.30 | 0.50 | 0.20 | 24 | 5 | 24 |
| 1026 | 4 | 1 | 437 | 3.7 | 0.50 | 1.00 | 0.50 | 0.25 | 24 | 6 | 24 |
| 1027 | 4 | 1 | 438 | 3.7 | 0.45 | 1.00 | 0.45 | 0.20 | 25 | 6 | 25 |
| 1028 | 4 | 1 | 439 | 3.8 | 0.50 | 1.15 | 0.50 | 0.25 | 25 | 6 | 25 |
| 1029 | 4 | 1 | 440 | 3.8 | 0.60 | 0.90 | 0.60 | 0.25 | 25 | 6 | 25 |
| 1030 | 4 | 1 | 441 | 4.0 | 0.25 | 1.40 | 0.55 | 0.30 | 25 | 5 | 25 |
| 1031 | 4 | 1 | 442 | 4.1 | 0.50 | 1.45 | 0.55 | 0.25 | 26 | 5 | 26 |
| 1032 | 4 | 1 | 443 | 4.7 | 0.50 | 1.55 | 0.70 | 0.35 | 25 | 4 | 25 |
| 1033 | 4 | 1 | 444 | 4.8 | 0.60 | 1.50 | 0.60 | 0.25 | 26 | 5 | 26 |
| 1034 | 4 | 1 | 445 | 4.1 | 0.30 | 1.50 | 0.55 | 0.30 | 26 | 7 | 26 |
| 1035 | 4 | 1 | 446 | 4.9 | 0.80 | 1.30 | 0.75 | 0.35 | 27 | 6 | 27 |
| 1036 | 4 | 1 | 447 | 4.4 | 0.50 | 1.50 | 1.05 | 0.55 | 25 | 3 | 25 |
| 1037 | 4 | 1 | 448 | 2.7 | 0.25 | 1.00 | 0.50 | 0.25 | 24 | 3 | 24 |
| 1038 | 4 | 1 | 449 | 3.7 | 0.55 | 1.50 | 0.60 | 0.30 | 26 | 5 | 26 |
| 1039 | 4 | 1 | 450 | 4.4 | 0.40 | 1.20 | 0.45 | 0.15 | 28 | 10 | 28 |
| 1040 | 4 | 1 | 451 | 5.6 | 0.70 | 1.60 | 0.55 | 0.25 | 29 | 3 | 29 |
| 1041 | 4 | 1 | 452 | 3.2 | 0.20 | 1.20 | 0.70 | 0.40 | 22 | 2 | 22 |
| 1042 | 4 | 1 | 453 | 5.1 | 0.60 | 1.45 | 1.00 | 0.50 | 23 | 4 | 23 |
| 1043 | 4 | 1 | 454 | 2.3 | 0.25 | 0.75 | 0.40 | 0.20 | 19 | 7 | 19 |
| 1044 | 4 | 1 | 455 | 3.8 | 0.50 | 0.90 | 0.35 | 0.15 | 26 | 9 | 26 |
| 1045 | 4 | 1 | 456 | 4.9 | 0.90 | 1.15 | 0.65 | 0.30 | 29 | 4 | 29 |
| 1046 | 4 | 1 | 457 | 3.7 | 0.65 | 1.45 | 0.75 | 0.40 | 25 | 11 | 25 |
| 1047 | 4 | 1 | 458 | 3.9 | 0.25 | 1.40 | 0.60 | 0.25 | 28 | 5 | 28 |
| 1048 | 4 | 1 | 459 | 4.9 | 0.65 | 1.85 | 1.10 | 0.55 | 25 | 2 | 25 |
| 1049 | 4 | 1 | 460 | 4.5 | 1.10 | 1.05 | 1.05 | 0.45 | 25 | 4 | 25 |
| 1050 | 4 | 1 | 461 | 4.1 | 0.45 | 1.50 | 0.75 | 0.35 | 25 | 4 | 25 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1051 | 4 | 1 | 462 | 3.1 | 0.45 | 1.05 | 0.45 | 0.20 | 23 | 3 | 23 |
| 1052 | 4 | 1 | 463 | 2.7 | 0.30 | 0.95 | 0.70 | 0.35 | 21 | 5 | 21 |
| 1053 | 4 | 1 | 464 | 2.2 | 0.20 | 1.05 | 0.80 | 0.35 | 18 | 3 | 18 |
| 1054 | 4 | 1 | 465 | 3.8 | 0.50 | 1.50 | 0.65 | 0.30 | 26 | 8 | 26 |
| 1055 | 4 | 1 | 466 | 4.3 | 0.70 | 1.40 | 0.65 | 0.35 | 27 | 8 | 27 |
| 1056 | 4 | 1 | 467 | 4.8 | 0.55 | 1.30 | 0.65 | 0.30 | 23 | 5 | 23 |
| 1057 | 4 | 1 | 468 | 5.8 | 0.55 | 2.15 | 1.05 | 0.55 | 25 | 1 | 25 |
| 1058 | 4 | 1 | 469 | 4.9 | 0.60 | 1.40 | 0.75 | 0.35 | 24 | 3 | 24 |
| 1059 | 4 | 1 | 470 | 6.0 | 0.70 | 2.05 | 1.00 | 0.50 | 20 | 1 | 20 |
| 1060 | 4 | 1 | 471 | 5.7 | 0.90 | 1.90 | 0.95 | 0.50 | 32 | 3 | 32 |
| 1061 | 4 | 1 | 472 | 3.1 | 0.40 | 1.05 | 0.60 | 0.25 | 26 | 4 | 26 |
| 1062 | 4 | 1 | 473 | 3.5 | 0.60 | 0.95 | 0.60 | 0.25 | 27 | 8 | 27 |
| 1063 | 4 | 1 | 474 | 3.0 | 0.40 | 0.85 | 0.45 | 0.25 | 27 | 12 | 27 |
| 1064 | 4 | 1 | 475 | 3.7 | 0.60 | 1.15 | 0.60 | 0.25 | 30 | 10 | 30 |
| 1065 | 4 | 1 | 476 | 4.7 | 0.50 | 1.55 | 0.85 | 0.40 | 31 | 4 | 31 |
| 1066 | 4 | 1 | 477 | 3.2 | 0.20 | 1.20 | 0.75 | 0.40 | 26 | 2 | 26 |
| 1067 | 4 | 1 | 478 | 4.3 | 0.40 | 1.75 | 1.00 | 0.45 | 30 | 3 | 30 |
| 1068 | 4 | 1 | 479 | 3.5 | 0.35 | 1.00 | 0.50 | 0.25 | 26 | 6 | 26 |
| 1069 | 4 | 1 | 480 | 4.0 | 0.30 | 1.50 | 0.90 | 0.40 | 29 | 4 | 29 |
| 1070 | 4 | 1 | 481 | 4.7 | 0.50 | 1.75 | 0.90 | 0.40 | 31 | 4 | 31 |
| 1071 | 4 | 1 | 482 | 3.0 | 0.50 | 0.75 | 0.30 | 0.15 | 28 | 8 | 28 |
| 1072 | 4 | 1 | 483 | 3.5 | 0.40 | 1.05 | 0.45 | 0.20 | 33 | 5 | 33 |
| 1073 | 4 | 1 | 484 | 4.9 | 0.55 | 1.60 | 0.50 | 0.25 | 33 | 5 | 33 |
| 1074 | 4 | 1 | 485 | 2.9 | 0.50 | 0.85 | 0.40 | 0.20 | 25 | 8 | 25 |
| 1075 | 4 | 1 | 486 | 5.1 | 0.65 | 1.40 | 0.50 | 0.20 | 30 | 6 | 30 |
| 1076 | 4 | 1 | 487 | 5.9 | 0.60 | 1.70 | 0.85 | 0.40 | 31 | 3 | 31 |
| 1077 | 4 | 1 | 488 | 3.7 | 0.40 | 1.65 | 0.65 | 0.30 | 27 | 3 | 27 |
| 1078 | 4 | 1 | 489 | 4.9 | 0.65 | 1.50 | 0.70 | 0.35 | 28 | 4 | 28 |
| 1079 | 4 | 1 | 490 | 4.4 | 0.65 | 1.10 | 0.75 | 0.35 | 23 | 1 | 23 |
| 1080 | 4 | 1 | 491 | 4.7 | 0.60 | 1.30 | 0.45 | 0.20 | 28 | 4 | 28 |
| 1081 | 4 | 1 | 492 | 5.3 | 0.80 | 1.10 | 0.45 | 0.20 | 32 | 8 | 32 |
| 1082 | 4 | 1 | 493 | 3.5 | 0.35 | 0.95 | 0.60 | 0.30 | 27 | 5 | 27 |
| 1083 | 4 | 1 | 494 | 3.7 | 0.50 | 1.10 | 0.70 | 0.35 | 31 | 6 | 31 |
| 1084 | 4 | 1 | 495 | 2.4 | 0.10 | 1.25 | 0.75 | 0.35 | 21 | 6 | 21 |
| 1085 | 4 | 1 | 496 | 4.0 | 0.45 | 1.20 | 0.85 | 0.40 | 25 | 3 | 25 |
| 1086 | 4 | 1 | 497 | 3.2 | 0.50 | 0.90 | 0.60 | 0.35 | 25 | 3 | 25 |
| 1087 | 4 | 1 | 498 | 3.5 | 0.50 | 0.85 | 0.65 | 0.30 | 27 | 4 | 27 |
| 1088 | 4 | 1 | 499 | 3.8 | 0.50 | 0.95 | 0.65 | 0.35 | 26 | 4 | 26 |
| 1089 | 4 | 1 | 500 | 4.7 | 0.80 | 1.45 | 0.85 | 0.50 | 27 | 2 | 27 |
| 1090 | 4 | 1 | 501 | 5.0 | 0.35 | 1.80 | 1.00 | 0.55 | 23 | 1 | 23 |
| 1091 | 4 | 1 | 502 | 1.6 | 0.10 | 0.70 | 0.60 | 0.30 | 13 | 2 | 13 |
| 1092 | 4 | 1 | 504 | 1.8 | 0.10 | 0.65 | 0.65 | 0.35 | 15 | 2 | 15 |
| 1093 | 4 | 1 | 505 | 2.3 | 0.10 | 0.85 | 0.65 | 0.35 | 18 | 3 | 18 |
| 1094 | 4 | 1 | 506 | 3.4 | 0.30 | 1.20 | 1.00 | 0.50 | 20 | 1 | 20 |
| 1095 | 4 | 1 | 507 | 2.3 | 0.20 | 0.85 | 0.85 | 0.40 | 15 | 1 | 15 |
| 1096 | 4 | 1 | 508 | 1.5 | 0.10 | 0.65 | 0.85 | 0.45 | 11 | 1 | 11 |
| 1097 | 4 | 1 | 509 | 1.8 | 0.15 | 0.60 | 0.70 | 0.35 | 14 | 3 | 14 |
| 1098 | 4 | 1 | 510 | 4.0 | 0.65 | 1.00 | 0.65 | 0.30 | 22 | 3 | 22 |
| 1099 | 4 | 1 | 511 | 6.1 | 0.20 | 1.25 | 0.90 | 0.40 | 25 | 3 | 25 |
| 1100 | 4 | 1 | 512 | 2.8 | 0.20 | 1.05 | 0.90 | 0.40 | 19 | 2 | 19 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1101 | 4 | 1 | 513 | 4.5 | 0.50 | 1.35 | 0.85 | 0.50 | 24 | 2 | 24 |
| 1102 | 4 | 1 | 514 | 4.0 | 0.50 | 1.15 | 0.80 | 0.35 | 25 | 3 | 25 |
| 1103 | 4 | 1 | 515 | 2.7 | 0.30 | 0.85 | 0.50 | 0.20 | 20 | 4 | 20 |
| 1104 | 4 | 1 | 516 | 2.0 | 0.05 | 0.70 | 0.70 | 0.35 | 15 | 3 | 15 |
| 1105 | 4 | 1 | 517 | 3.7 | 0.20 | 1.25 | 0.80 | 0.45 | 20 | 3 | 20 |
| 1106 | 4 | 1 | 518 | 2.5 | 0.20 | 0.75 | 0.70 | 0.30 | 17 | 4 | 17 |
| 1107 | 4 | 1 | 522 | 2.3 | 0.20 | 1.00 | 0.80 | 0.45 | 17 | 7 | 17 |
| 1108 | 4 | 1 | 523 | 4.0 | 0.20 | 1.30 | 0.50 | 0.25 | 22 | 2 | 22 |
| 1109 | 4 | 1 | 524 | 2.8 | 0.25 | 1.20 | 0.60 | 0.35 | 24 | 5 | 24 |
| 1110 | 4 | 1 | 525 | 3.5 | 0.30 | 1.05 | 0.55 | 0.30 | 25 | 4 | 25 |
| 1111 | 4 | 1 | 526 | 3.9 | 0.45 | 0.95 | 0.95 | 0.25 | 20 | 2 | 20 |
| 1112 | 4 | 1 | 527 | 3.5 | 0.40 | 1.15 | 0.60 | 0.30 | 24 | 4 | 24 |
| 1113 | 4 | 1 | 528 | 4.9 | 0.25 | 1.70 | 0.90 | 0.40 | 25 | 4 | 25 |
| 1114 | 4 | 1 | 529 | 3.4 | 0.30 | 1.10 | 0.55 | 0.30 | 25 | 6 | 25 |
| 1115 | 4 | 1 | 530 | 2.8 | 0.20 | 1.10 | 0.65 | 0.30 | 21 | 4 | 21 |
| 1116 | 4 | 1 | 531 | 3.1 | 0.20 | 1.10 | 0.70 | 0.30 | 21 | 4 | 21 |
| 1117 | 4 | 1 | 532 | 2.4 | 0.20 | 0.90 | 0.75 | 0.35 | 20 | 5 | 20 |
| 1118 | 4 | 1 | 533 | 2.6 | 0.05 | 0.60 | 0.40 | 0.15 | 12 | 4 | 12 |
| 1119 | 4 | 1 | 534 | 4.1 | 0.20 | 1.35 | 0.95 | 0.45 | 17 | 3 | 17 |
| 1120 | 4 | 1 | 535 | 4.7 | 0.30 | 1.75 | 0.75 | 0.35 | 24 | 3 | 24 |
| 1121 | 4 | 1 | 536 | 4.7 | 0.55 | 1.40 | 1.00 | 0.50 | 25 | 4 | 25 |
| 1122 | 4 | 2 | 537 | 4.4 | 0.55 | 1.60 | 0.70 | 0.30 | 24 | 5 | 24 |
| 1123 | 4 | 2 | 539 | 3.1 | 0.40 | 1.25 | 0.75 | 0.35 | 19 | 2 | 19 |
| 1124 | 4 | 2 | 540 | 5.0 | 0.55 | 2.25 | 0.95 | 0.40 | 23 | 3 | 23 |
| 1125 | 4 | 2 | 543 | 2.1 | 0.20 | 0.95 | 0.50 | 0.20 | 15 | 3 | 15 |
| 1126 | 4 | 2 | 545 | 3.0 | 0.35 | 1.00 | 0.65 | 0.25 | 18 | 2 | 18 |
| 1127 | 4 | 2 | 546 | 3.2 | 0.30 | 1.15 | 0.60 | 0.25 | 19 | 2 | 19 |
| 1128 | 4 | 2 | 548 | 3.5 | 0.45 | 1.15 | 0.65 | 0.25 | 19 | 3 | 19 |
| 1129 | 4 | 2 | 549 | 2.0 | 0.20 | 0.80 | 0.40 | 0.15 | 17 | 4 | 17 |
| 1130 | 4 | 2 | 552 | 4.4 | 0.50 | 1.60 | 0.90 | 0.45 | 25 | 3 | 25 |
| 1131 | 4 | 2 | 553 | 4.4 | 0.50 | 1.60 | 0.85 | 0.35 | 21 | 1 | 21 |
| 1132 | 4 | 2 | 554 | 4.5 | 0.70 | 1.25 | 0.80 | 0.35 | 25 | 4 | 25 |
| 1133 | 4 | 2 | 557 | 5.0 | 0.90 | 1.80 | 0.90 | 0.40 | 27 | 3 | 27 |
| 1134 | 4 | 2 | 558 | 4.7 | 0.85 | 1.40 | 0.65 | 0.30 | 28 | 7 | 28 |
| 1135 | 4 | 2 | 560 | 3.2 | 0.20 | 1.30 | 1.00 | 0.45 | 19 | 1 | 19 |
| 1136 | 4 | 2 | 561 | 1.9 | 0.15 | 0.70 | 0.70 | 0.30 | 17 | 3 | 17 |
| 1137 | 4 | 2 | 562 | 3.3 | 0.35 | 1.10 | 0.90 | 0.40 | 19 | 1 | 19 |
| 1138 | 4 | 2 | 563 | 3.8 | 0.30 | 1.40 | 1.05 | 0.40 | 18 | 2 | 18 |
| 1139 | 4 | 2 | 564 | 4.9 | 0.90 | 1.85 | 1.25 | 0.45 | 23 | 1 | 23 |
| 1140 | 4 | 2 | 565 | 3.5 | 0.35 | 1.35 | 1.10 | 0.50 | 19 | 1 | 19 |
| 1141 | 4 | 2 | 566 | 5.8 | 0.90 | 1.50 | 0.70 | 0.30 | 27 | 2 | 27 |
| 1142 | 4 | 2 | 567 | 5.1 | 0.40 | 1.75 | 1.10 | 0.45 | 22 | 2 | 22 |
| 1143 | 4 | 2 | 568 | 4.4 | 0.45 | 1.50 | 0.80 | 0.35 | 23 | 2 | 23 |
| 1144 | 4 | 2 | 569 | 6.5 | 1.00 | 2.20 | 0.65 | 0.35 | 31 | 4 | 31 |
| 1145 | 4 | 2 | 571 | 3.4 | 0.40 | 1.30 | 0.70 | 0.35 | 22 | 4 | 22 |
| 1146 | 4 | 2 | 572 | 4.1 | 0.70 | 1.75 | 0.85 | 0.40 | 23 | 5 | 23 |
| 1147 | 4 | 2 | 573 | 2.1 | 0.35 | 0.85 | 0.70 | 0.35 | 17 | 4 | 17 |
| 1148 | 4 | 2 | 574 | 1.6 | 0.20 | 0.70 | 0.65 | 0.30 | 13 | 4 | 13 |
| 1149 | 4 | 2 | 575 | 2.1 | 0.25 | 0.65 | 0.55 | 0.30 | 13 | 3 | 13 |
| 1150 | 4 | 2 | 576 | 3.0 | 0.30 | 1.00 | 0.70 | 0.30 | 20 | 3 | 20 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1151 | 4 | 2 | 577 | 1.9 | 0.10 | 0.80 | 0.50 | 0.20 | 16 | 4 | 16 |
| 1152 | 4 | 2 | 578 | 3.7 | 0.45 | 1.40 | 0.75 | 0.40 | 22 | 3 | 22 |
| 1153 | 4 | 2 | 579 | 3.2 | 0.25 | 1.45 | 0.60 | 0.30 | 20 | 5 | 20 |
| 1154 | 4 | 2 | 581 | 4.9 | 0.60 | 2.05 | 0.80 | 0.50 | 29 | 6 | 29 |
| 1155 | 4 | 2 | 583 | 2.4 | 0.15 | 0.90 | 0.60 | 0.30 | 17 | 4 | 17 |
| 1156 | 4 | 2 | 584 | 2.6 | 0.20 | 0.95 | 0.65 | 0.30 | 17 | 3 | 17 |
| 1157 | 4 | 2 | 585 | 3.2 | 0.25 | 1.10 | 0.60 | 0.30 | 21 | 3 | 21 |
| 1158 | 4 | 2 | 587 | 3.1 | 0.30 | 1.15 | 0.80 | 0.30 | 19 | 3 | 19 |
| 1159 | 4 | 2 | 589 | 2.1 | 0.35 | 0.75 | 0.45 | 0.20 | 16 | 6 | 16 |
| 1160 | 4 | 2 | 590 | 4.4 | 0.65 | 1.35 | 0.70 | 0.30 | 21 | 3 | 21 |
| 1161 | 4 | 2 | 591 | 4.3 | 0.45 | 1.40 | 0.70 | 0.35 | 23 | 4 | 23 |
| 1162 | 4 | 2 | 592 | 3.6 | 0.55 | 1.15 | 0.70 | 0.35 | 22 | 4 | 22 |
| 1163 | 4 | 2 | 593 | 2.4 | 0.40 | 0.90 | 0.70 | 0.30 | 19 | 2 | 19 |
| 1164 | 4 | 2 | 594 | 4.0 | 0.40 | 1.45 | 0.80 | 0.35 | 24 | 6 | 24 |
| 1165 | 4 | 2 | 595 | 3.0 | 0.20 | 1.10 | 0.85 | 0.40 | 16 | 1 | 16 |
| 1166 | 4 | 2 | 597 | 3.5 | 0.30 | 1.15 | 0.75 | 0.30 | 19 | 3 | 19 |
| 1167 | 4 | 2 | 598 | 3.2 | 0.45 | 1.00 | 0.80 | 0.30 | 20 | 3 | 20 |
| 1168 | 4 | 2 | 599 | 3.0 | 0.20 | 1.05 | 0.80 | 0.40 | 15 | 1 | 15 |
| 1169 | 4 | 2 | 600 | 4.2 | 0.55 | 1.25 | 0.75 | 0.35 | 20 | 1 | 20 |
| 1170 | 4 | 2 | 602 | 4.0 | 0.45 | 1.30 | 1.30 | 0.40 | 24 | 1 | 24 |
| 1171 | 4 | 2 | 606 | 5.3 | 0.90 | 1.50 | 0.85 | 0.40 | 22 | 6 | 22 |
| 1172 | 4 | 2 | 607 | 2.3 | 0.10 | 0.95 | 0.65 | 0.35 | 13 | 3 | 13 |
| 1173 | 4 | 2 | 608 | 1.9 | 0.10 | 0.70 | 0.55 | 0.30 | 14 | 3 | 14 |
| 1174 | 4 | 2 | 610 | 3.2 | 0.30 | 0.95 | 0.50 | 0.25 | 21 | 5 | 21 |
| 1175 | 4 | 2 | 611 | 2.3 | 0.20 | 0.80 | 0.40 | 0.20 | 15 | 3 | 15 |
| 1176 | 4 | 2 | 612 | 2.9 | 0.35 | 1.00 | 0.55 | 0.30 | 21 | 6 | 21 |
| 1177 | 4 | 2 | 614 | 2.6 | 0.30 | 0.95 | 0.45 | 0.25 | 19 | 5 | 19 |
| 1178 | 4 | 2 | 615 | 2.9 | 0.30 | 1.15 | 0.55 | 0.25 | 20 | 5 | 20 |
| 1179 | 4 | 2 | 616 | 2.1 | 0.30 | 1.00 | 0.50 | 0.25 | 17 | 5 | 17 |
| 1180 | 4 | 2 | 617 | 3.0 | 0.15 | 1.20 | 0.60 | 0.30 | 20 | 5 | 20 |
| 1181 | 4 | 2 | 618 | 2.5 | 0.25 | 0.90 | 0.60 | 0.30 | 17 | 3 | 17 |
| 1182 | 4 | 2 | 619 | 1.9 | 0.15 | 0.75 | 0.55 | 0.25 | 13 | 1 | 13 |
| 1183 | 4 | 2 | 620 | 4.1 | 0.35 | 1.90 | 1.20 | 0.50 | 20 | 1 | 20 |
| 1184 | 4 | 2 | 623 | 4.3 | 0.30 | 1.85 | 0.95 | 0.45 | 23 | 3 | 23 |
| 1185 | 4 | 2 | 624 | 2.7 | 0.40 | 1.00 | 0.85 | 0.35 | 16 | 2 | 16 |
| 1186 | 4 | 2 | 626 | 2.5 | 0.30 | 0.90 | 0.60 | 0.30 | 19 | 3 | 19 |
| 1187 | 4 | 2 | 627 | 4.5 | 0.40 | 1.45 | 0.90 | 0.40 | 25 | 2 | 25 |
| 1188 | 4 | 2 | 628 | 4.2 | 0.35 | 1.45 | 1.45 | 0.50 | 26 | 3 | 26 |
| 1189 | 4 | 2 | 629 | 1.1 | 0.05 | 0.45 | 0.50 | 0.25 | 10 | 1 | 10 |
| 1190 | 4 | 2 | 630 | 1.8 | 0.10 | 0.75 | 0.75 | 0.40 | 12 | 1 | 12 |
| 1191 | 4 | 2 | 631 | 1.6 | 0.20 | 0.60 | 0.60 | 0.25 | 13 | 3 | 13 |
| 1192 | 4 | 2 | 632 | 1.9 | 0.10 | 0.70 | 0.60 | 0.30 | 12 | 1 | 12 |
| 1193 | 4 | 2 | 633 | 3.9 | 0.25 | 1.45 | 0.75 | 0.35 | 20 | 1 | 20 |
| 1194 | 4 | 2 | 634 | 4.6 | 0.50 | 1.45 | 0.65 | 0.30 | 24 | 2 | 24 |
| 1195 | 4 | 2 | 635 | 3.0 | 0.30 | 0.80 | 0.40 | 0.20 | 20 | 3 | 20 |
| 1196 | 4 | 2 | 637 | 4.0 | 0.35 | 1.60 | 0.65 | 0.30 | 21 | 1 | 21 |
| 1197 | 4 | 2 | 638 | 2.9 | 0.35 | 0.95 | 0.45 | 0.25 | 18 | 3 | 18 |
| 1198 | 4 | 2 | 640 | 3.7 | 0.40 | 1.40 | 0.60 | 0.30 | 21 | 6 | 21 |
| 1199 | 4 | 2 | 643 | 4.5 | 1.00 | 1.45 | 0.80 | 0.35 | 23 | 6 | 23 |
| 1200 | 4 | 2 | 644 | 4.0 | 0.35 | 1.25 | 0.50 | 0.20 | 21 | 5 | 21 |
| 1201 | 4 | 2 | 645 | 2.4 | 0.30 | 0.70 | 0.40 | 0.20 | 17 | 6 | 17 |
| 1202 | 4 | 2 | 646 | 2.9 | 0.25 | 1.00 | 0.55 | 0.25 | 17 | 4 | 17 |
| 1203 | 4 | 2 | 647 | 1.9 | 0.20 | 0.65 | 0.40 | 0.20 | 16 | 4 | 16 |
| 1204 | 4 | 2 | 648 | 1.8 | 0.10 | 0.70 | 0.45 | 0.25 | 15 | 4 | 15 |
| 1205 | 4 | 2 | 649 | 2.3 | 0.15 | 0.85 | 0.55 | 0.25 | 15 | 3 | 15 |
| 1206 | 4 | 2 | 650 | 2.9 | 0.45 | 1.15 | 0.60 | 0.30 | 17 | 4 | 17 |
| 1207 | 4 | 3 | 651 | 4.8 | 0.55 | 1.60 | 0.70 | 0.40 | 27 | 4 | 27 |
| 1208 | 4 | 3 | 652 | 4.8 | 0.45 | 1.70 | 0.80 | 0.35 | 22 | 2 | 22 |
| 1209 | 4 | 3 | 653 | 3.4 | 0.25 | 1.25 | 0.85 | 0.40 | 19 | 4 | 19 |
| 1210 | 4 | 3 | 654 | 3.1 | 0.35 | 0.90 | 0.50 | 0.20 | 21 | 6 | 21 |
| 1211 | 4 | 3 | 655 | 2.5 | 0.10 | 0.90 | 0.50 | 0.20 | 18 | 4 | 18 |
| 1212 | 4 | 3 | 656 | 2.6 | 0.20 | 0.85 | 0.50 | 0.20 | 17 | 3 | 17 |
| 1213 | 4 | 3 | 657 | 3.0 | 0.15 | 1.10 | 0.90 | 0.50 | 20 | 4 | 20 |
| 1214 | 4 | 3 | 658 | 2.8 | 0.00 | 1.15 | 0.75 | 0.35 | 18 | 2 | 18 |
| 1215 | 4 | 3 | 659 | 1.5 | 0.00 | 0.70 | 0.65 | 0.30 | 10 | 1 | 10 |
| 1216 | 4 | 3 | 660 | 2.2 | 0.10 | 1.00 | 1.15 | 0.55 | 13 | 1 | 13 |
| 1217 | 4 | 3 | 661 | 5.1 | 0.45 | 1.90 | 1.20 | 0.60 | 20 | 1 | 20 |
| 1218 | 4 | 3 | 662 | 2.2 | 0.20 | 0.95 | 0.70 | 0.30 | 17 | 3 | 17 |
| 1219 | 4 | 3 | 663 | 4.3 | 0.20 | 1.50 | 0.85 | 0.40 | 25 | 2 | 25 |
| 1220 | 4 | 3 | 664 | 4.0 | 0.35 | 1.80 | 1.00 | 0.50 | 20 | 2 | 20 |
| 1221 | 4 | 3 | 665 | 4.4 | 0.65 | 1.10 | 0.70 | 0.30 | 20 | 4 | 20 |
| 1222 | 4 | 3 | 666 | 4.1 | 0.20 | 1.45 | 0.85 | 0.40 | 17 | 2 | 17 |
| 1223 | 4 | 3 | 667 | 2.3 | 0.05 | 0.90 | 0.70 | 0.35 | 15 | 3 | 15 |
| 1224 | 4 | 3 | 668 | 1.4 | 0.00 | 0.65 | 0.80 | 0.40 | 9 | 1 | 9 |
| 1225 | 4 | 3 | 669 | 2.6 | 0.15 | 0.80 | 0.75 | 0.35 | 14 | 4 | 14 |
| 1226 | 4 | 3 | 670 | 4.1 | 0.30 | 1.40 | 0.90 | 0.50 | 21 | 3 | 21 |
| 1227 | 4 | 3 | 671 | 2.7 | 0.10 | 1.20 | 0.85 | 0.40 | 16 | 3 | 16 |
| 1228 | 4 | 3 | 672 | 2.7 | 0.10 | 1.05 | 0.70 | 0.30 | 15 | 1 | 15 |
| 1229 | 4 | 3 | 673 | 2.6 | 0.00 | 1.05 | 0.75 | 0.35 | 16 | 2 | 16 |
| 1230 | 4 | 3 | 674 | 3.0 | 0.20 | 1.00 | 0.70 | 0.35 | 19 | 3 | 19 |
| 1231 | 4 | 3 | 675 | 3.5 | 0.25 | 1.60 | 0.90 | 0.35 | 22 | 6 | 22 |
| 1232 | 4 | 3 | 676 | 2.2 | 0.15 | 0.90 | 0.65 | 0.25 | 15 | 3 | 15 |
| 1233 | 4 | 3 | 677 | 2.0 | 0.20 | 0.70 | 0.55 | 0.25 | 14 | 4 | 14 |
| 1234 | 4 | 3 | 678 | 3.4 | 0.20 | 1.15 | 0.70 | 0.35 | 20 | 3 | 20 |
| 1235 | 4 | 3 | 680 | 3.7 | 0.25 | 1.50 | 1.10 | 0.55 | 19 | 4 | 19 |
| 1236 | 4 | 3 | 681 | 3.0 | 0.20 | 1.00 | 0.65 | 0.35 | 17 | 4 | 17 |
| 1237 | 4 | 3 | 682 | 2.5 | 0.10 | 0.80 | 0.55 | 0.25 | 17 | 3 | 17 |
| 1238 | 4 | 3 | 683 | 4.2 | 0.25 | 1.40 | 0.85 | 0.35 | 20 | 1 | 20 |
| 1239 | 4 | 3 | 684 | 3.3 | 0.35 | 0.95 | 0.60 | 0.30 | 21 | 4 | 21 |
| 1240 | 4 | 3 | 685 | 3.0 | 0.30 | 0.80 | 0.95 | 0.55 | 19 | 3 | 19 |
| 1241 | 4 | 3 | 686 | 2.2 | 0.00 | 0.85 | 0.55 | 0.25 | 13 | 3 | 13 |
| 1242 | 4 | 3 | 687 | 3.0 | 0.00 | 1.20 | 0.75 | 0.40 | 17 | 3 | 17 |
| 1243 | 4 | 3 | 688 | 3.0 | 0.30 | 0.90 | 0.50 | 0.25 | 18 | 4 | 18 |
| 1244 | 4 | 3 | 689 | 3.9 | 0.20 | 1.40 | 0.60 | 0.30 | 19 | 3 | 19 |
| 1245 | 4 | 3 | 691 | 3.0 | 0.15 | 1.20 | 0.60 | 0.25 | 19 | 4 | 19 |
| 1246 | 4 | 3 | 692 | 3.7 | 0.35 | 1.70 | 0.95 | 0.45 | 21 | 4 | 21 |
| 1247 | 4 | 3 | 693 | 2.4 | 0.00 | 0.90 | 0.50 | 0.20 | 16 | 3 | 16 |
| 1248 | 4 | 3 | 694 | 3.8 | 0.30 | 1.20 | 0.80 | 0.40 | 19 | 1 | 19 |
| 1249 | 4 | 3 | 695 | 3.7 | 0.35 | 1.10 | 0.85 | 0.40 | 20 | 4 | 20 |
| 1250 | 4 | 3 | 696 | 3.5 | 0.40 | 0.85 | 0.65 | 0.30 | 21 | 4 | 21 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1251 | 4 | 3 | 697 | 3.8 | 0.30 | 1.40 | 1.00 | 0.45 | 18 | 5 | 18 |
| 1252 | 4 | 3 | 698 | 3.7 | 0.50 | 1.05 | 0.75 | 0.35 | 21 | 4 | 21 |
| 1253 | 4 | 3 | 699 | 3.8 | 0.45 | 1.45 | 0.90 | 0.45 | 19 | 4 | 19 |
| 1254 | 4 | 3 | 700 | 2.6 | 0.00 | 1.10 | 0.80 | 0.30 | 15 | 4 | 15 |
| 1255 | 4 | 3 | 701 | 2.6 | 0.30 | 0.80 | 0.75 | 0.35 | 17 | 4 | 17 |
| 1256 | 4 | 3 | 702 | 3.0 | 0.15 | 1.55 | 0.85 | 0.45 | 21 | 3 | 21 |
| 1257 | 4 | 3 | 703 | 2.3 | 0.15 | 1.05 | 0.55 | 0.35 | 19 | 4 | 19 |
| 1258 | 4 | 3 | 704 | 3.1 | 0.35 | 1.10 | 0.70 | 0.40 | 18 | 3 | 18 |
| 1259 | 4 | 3 | 705 | 3.8 | 1.20 | 0.80 | 0.80 | 0.40 | 21 | 4 | 21 |
| 1260 | 4 | 3 | 706 | 3.2 | 0.10 | 1.20 | 0.80 | 0.40 | 19 | 4 | 19 |
| 1261 | 4 | 3 | 707 | 3.2 | 0.20 | 1.30 | 0.80 | 0.40 | 18 | 2 | 18 |
| 1262 | 4 | 3 | 708 | 3.3 | 0.25 | 1.20 | 0.75 | 0.40 | 19 | 4 | 19 |
| 1263 | 4 | 3 | 709 | 2.2 | 0.15 | 1.00 | 0.95 | 0.45 | 14 | 3 | 14 |
| 1264 | 4 | 3 | 710 | 2.6 | 0.15 | 1.35 | 0.80 | 0.40 | 15 | 2 | 15 |
| 1265 | 4 | 3 | 711 | 3.1 | 0.20 | 1.15 | 0.80 | 0.45 | 18 | 3 | 18 |
| 1266 | 4 | 3 | 712 | 3.1 | 0.30 | 1.00 | 0.75 | 0.35 | 16 | 4 | 16 |
| 1267 | 4 | 3 | 713 | 2.8 | 0.20 | 1.05 | 0.65 | 0.30 | 17 | 4 | 17 |
| 1268 | 4 | 3 | 714 | 2.5 | 0.20 | 1.00 | 0.85 | 0.35 | 15 | 4 | 15 |
| 1269 | 4 | 3 | 715 | 3.2 | 0.20 | 1.35 | 0.90 | 0.40 | 17 | 4 | 17 |
| 1270 | 4 | 3 | 716 | 2.5 | 0.15 | 1.10 | 0.65 | 0.35 | 18 | 4 | 18 |
| 1271 | 4 | 3 | 717 | 4.3 | 0.40 | 1.65 | 1.15 | 0.55 | 23 | 3 | 23 |
| 1272 | 4 | 3 | 718 | 3.5 | 0.55 | 1.25 | 0.70 | 0.40 | 20 | 2 | 20 |
| 1273 | 4 | 3 | 719 | 3.2 | 0.30 | 1.20 | 0.95 | 0.50 | 18 | 2 | 18 |
| 1274 | 4 | 3 | 720 | 2.4 | 0.15 | 1.05 | 0.75 | 0.30 | 15 | 3 | 15 |
| 1275 | 4 | 3 | 721 | 2.1 | 0.10 | 0.80 | 0.45 | 0.20 | 15 | 2 | 15 |
| 1276 | 4 | 3 | 722 | 4.5 | 0.50 | 1.70 | 0.90 | 0.40 | 22 | 4 | 22 |
| 1277 | 4 | 3 | 723 | 3.0 | 0.45 | 1.00 | 0.85 | 0.25 | 18 | 1 | 18 |
| 1278 | 4 | 3 | 724 | 3.6 | 0.30 | 1.40 | 0.90 | 0.45 | 18 | 3 | 18 |
| 1279 | 4 | 3 | 725 | 3.8 | 0.30 | 1.30 | 1.00 | 0.40 | 21 | 4 | 21 |
| 1280 | 4 | 3 | 726 | 4.2 | 0.30 | 1.65 | 1.10 | 0.50 | 24 | 2 | 24 |
| 1281 | 4 | 3 | 727 | 3.9 | 0.30 | 1.45 | 1.10 | 0.55 | 18 | 1 | 18 |
| 1282 | 4 | 3 | 728 | 4.6 | 0.60 | 1.20 | 1.00 | 0.50 | 21 | 3 | 21 |
| 1283 | 4 | 3 | 729 | 1.8 | 0.10 | 0.90 | 0.50 | 0.25 | 13 | 4 | 13 |
| 1284 | 4 | 3 | 730 | 4.6 | 0.55 | 1.50 | 0.70 | 0.40 | 24 | 3 | 24 |
| 1285 | 4 | 3 | 731 | 4.6 | 0.50 | 1.75 | 1.10 | 0.50 | 22 | 4 | 22 |
| 1286 | 4 | 3 | 732 | 3.1 | 0.20 | 1.35 | 0.85 | 0.40 | 17 | 3 | 17 |
| 1287 | 4 | 3 | 733 | 2.6 | 0.20 | 0.90 | 0.70 | 0.35 | 16 | 4 | 16 |
| 1288 | 4 | 3 | 734 | 3.8 | 0.20 | 1.65 | 0.90 | 0.45 | 20 | 1 | 20 |
| 1289 | 4 | 3 | 735 | 2.2 | 0.20 | 0.95 | 0.75 | 0.35 | 16 | 1 | 16 |
| 1290 | 4 | 3 | 736 | 3.6 | 0.30 | 1.30 | 0.90 | 0.40 | 19 | 4 | 19 |
| 1291 | 4 | 3 | 737 | 2.5 | 0.15 | 1.05 | 0.85 | 0.35 | 15 | 3 | 15 |
| 1292 | 4 | 3 | 738 | 3.0 | 0.10 | 1.35 | 1.05 | 0.50 | 17 | 4 | 17 |
| 1293 | 4 | 3 | 739 | 2.2 | 0.05 | 1.10 | 0.75 | 0.35 | 16 | 2 | 16 |
| 1294 | 4 | 3 | 740 | 3.8 | 0.50 | 1.10 | 0.80 | 0.35 | 19 | 4 | 19 |
| 1295 | 4 | 3 | 741 | 3.3 | 0.30 | 1.40 | 1.25 | 0.50 | 15 | 2 | 15 |
| 1296 | 4 | 3 | 742 | 3.1 | 0.20 | 1.15 | 0.70 | 0.35 | 18 | 4 | 18 |
| 1297 | 4 | 3 | 743 | 2.8 | 0.35 | 0.95 | 0.65 | 0.30 | 15 | 1 | 15 |
| 1298 | 4 | 3 | 744 | 2.7 | 0.20 | 1.00 | 0.70 | 0.30 | 16 | 4 | 16 |
| 1299 | 4 | 3 | 745 | 4.0 | 0.20 | 1.40 | 1.00 | 0.50 | 20 | 2 | 20 |
| 1300 | 4 | 3 | 746 | 3.2 | 0.10 | 1.10 | 1.05 | 0.45 | 16 | 2 | 16 |
| 1301 | 4 | 3 | 747 | 4.1 | 0.20 | 1.50 | 1.20 | 0.55 | 17 | 2 | 17 |
| 1302 | 4 | 3 | 748 | 4.5 | 0.20 | 1.80 | 1.10 | 0.55 | 19 | 3 | 19 |
| 1303 | 4 | 3 | 749 | 2.7 | 0.25 | 1.05 | 0.75 | 0.40 | 18 | 4 | 18 |
| 1304 | 4 | 3 | 750 | 5.5 | 0.50 | 2.20 | 1.40 | 0.65 | 23 | 2 | 23 |
| 1305 | 4 | 3 | 751 | 3.5 | 0.30 | 1.30 | 0.95 | 0.60 | 17 | 1 | 17 |
| 1306 | 4 | 3 | 752 | 2.5 | 0.15 | 1.05 | 0.75 | 0.35 | 15 | 3 | 15 |
| 1307 | 4 | 3 | 753 | 3.2 | 0.20 | 1.40 | 1.00 | 0.45 | 17 | 4 | 17 |
| 1308 | 4 | 3 | 754 | 3.5 | 0.15 | 1.80 | 1.10 | 0.50 | 22 | 4 | 22 |
| 1309 | 4 | 3 | 755 | 2.8 | 0.20 | 1.05 | 0.60 | 0.30 | 18 | 4 | 18 |
| 1310 | 4 | 3 | 756 | 2.3 | 0.15 | 1.15 | 0.65 | 0.30 | 18 | 3 | 18 |
| 1311 | 4 | 3 | 757 | 3.1 | 0.20 | 1.20 | 0.95 | 0.45 | 18 | 4 | 18 |
| 1312 | 4 | 3 | 758 | 2.3 | 0.15 | 0.90 | 0.65 | 0.35 | 15 | 2 | 15 |
| 1313 | 4 | 3 | 759 | 5.1 | 0.40 | 1.85 | 1.15 | 0.60 | 23 | 1 | 23 |
| 1314 | 4 | 3 | 760 | 1.9 | 0.15 | 0.80 | 0.70 | 0.30 | 13 | 2 | 13 |
| 1315 | 4 | 3 | 761 | 2.8 | 0.20 | 1.10 | 0.90 | 0.40 | 16 | 1 | 16 |
| 1316 | 4 | 3 | 762 | 4.1 | 0.25 | 1.75 | 1.40 | 0.65 | 18 | 1 | 18 |
| 1317 | 4 | 3 | 763 | 3.2 | 0.40 | 1.05 | 0.80 | 0.35 | 16 | 1 | 16 |
| 1318 | 4 | 3 | 764 | 3.1 | 0.15 | 1.25 | 0.90 | 0.40 | 16 | 1 | 16 |
| 1319 | 4 | 3 | 765 | 2.8 | 0.10 | 0.90 | 1.00 | 0.40 | 12 | 2 | 12 |
| 1320 | 4 | 3 | 766 | 2.7 | 0.15 | 1.00 | 0.90 | 0.45 | 15 | 2 | 15 |
| 1321 | 4 | 3 | 767 | 5.3 | 0.30 | 1.95 | 1.15 | 0.50 | 26 | 1 | 26 |
| 1322 | 4 | 3 | 768 | 2.2 | 0.10 | 1.00 | 0.90 | 0.40 | 14 | 1 | 14 |
| 1323 | 4 | 3 | 769 | 3.2 | 0.10 | 1.20 | 0.85 | 0.35 | 19 | 1 | 19 |
| 1324 | 4 | 3 | 770 | 3.0 | 0.30 | 0.70 | 0.70 | 0.30 | 19 | 4 | 19 |
| 1325 | 4 | 3 | 771 | 4.1 | 0.30 | 1.55 | 1.05 | 0.50 | 17 | 1 | 17 |
| 1326 | 4 | 4 | 772 | 2.9 | 0.20 | 0.95 | 0.55 | 0.30 | 17 | 1 | 17 |
| 1327 | 4 | 4 | 773 | 4.3 | 0.20 | 1.75 | 0.90 | 0.45 | 21 | 1 | 21 |
| 1328 | 4 | 4 | 775 | 2.6 | 0.15 | 0.85 | 0.75 | 0.35 | 14 | 1 | 14 |
| 1329 | 4 | 4 | 776 | 3.2 | 0.35 | 1.05 | 0.85 | 0.40 | 14 | 1 | 14 |
| 1330 | 4 | 4 | 778 | 1.9 | 0.20 | 0.70 | 0.55 | 0.25 | 13 | 3 | 13 |
| 1331 | 4 | 4 | 779 | 2.9 | 0.20 | 1.00 | 0.75 | 0.35 | 14 | 2 | 14 |
| 1332 | 4 | 4 | 781 | 4.0 | 0.30 | 1.40 | 0.95 | 0.50 | 18 | 4 | 18 |
| 1333 | 4 | 4 | 783 | 2.8 | 0.15 | 1.00 | 0.70 | 0.35 | 15 | 2 | 15 |
| 1334 | 4 | 4 | 784 | 4.7 | 0.30 | 1.60 | 1.15 | 0.55 | 19 | 2 | 19 |
| 1335 | 4 | 4 | 785 | 2.9 | 0.20 | 1.25 | 0.85 | 0.40 | 21 | 3 | 21 |
| 1336 | 4 | 4 | 786 | 5.0 | 0.50 | 1.60 | 1.10 | 0.50 | 22 | 3 | 22 |
| 1337 | 4 | 4 | 787 | 3.9 | 0.35 | 1.45 | 1.00 | 0.45 | 21 | 4 | 21 |
| 1338 | 4 | 4 | 788 | 4.1 | 0.70 | 0.95 | 1.10 | 0.45 | 22 | 4 | 22 |
| 1339 | 4 | 4 | 789 | 2.9 | 0.25 | 1.20 | 1.00 | 0.45 | 17 | 2 | 17 |
| 1340 | 4 | 4 | 790 | 3.8 | 0.20 | 1.40 | 0.90 | 0.45 | 19 | 3 | 19 |
| 1341 | 4 | 4 | 793 | 3.0 | 0.20 | 1.05 | 0.70 | 0.35 | 15 | 4 | 15 |
| 1342 | 4 | 4 | 794 | 2.6 | 0.25 | 1.00 | 0.65 | 0.35 | 18 | 3 | 18 |
| 1343 | 4 | 4 | 795 | 3.9 | 0.25 | 1.50 | 0.75 | 0.40 | 20 | 1 | 20 |
| 1344 | 4 | 4 | 797 | 5.3 | 0.45 | 1.75 | 0.90 | 0.45 | 25 | 3 | 25 |
| 1345 | 4 | 4 | 798 | 3.5 | 0.35 | 1.25 | 0.85 | 0.30 | 22 | 3 | 22 |
| 1346 | 4 | 4 | 799 | 2.5 | 0.15 | 0.95 | 0.70 | 0.40 | 16 | 1 | 16 |
| 1347 | 4 | 4 | 801 | 4.5 | 0.40 | 1.55 | 1.00 | 0.45 | 19 | 2 | 19 |
| 1348 | 4 | 4 | 802 | 2.8 | 0.20 | 1.05 | 0.50 | 0.25 | 16 | 4 | 16 |
| 1349 | 4 | 4 | 803 | 3.8 | 0.35 | 1.35 | 1.00 | 0.50 | 18 | 4 | 18 |
| 1350 | 4 | 4 | 804 | 3.2 | 0.40 | 1.05 | 0.65 | 0.30 | 19 | 4 | 19 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1351 | 4 | 4 | 806 | 3.3 | 0.20 | 1.20 | 0.80 | 0.40 | 19 | 3 | 19 |
| 1352 | 4 | 4 | 807 | 5.0 | 0.45 | 1.55 | 0.95 | 0.45 | 20 | 3 | 20 |
| 1353 | 4 | 4 | 808 | 3.8 | 0.45 | 1.35 | 1.00 | 0.40 | 23 | 5 | 23 |
| 1354 | 4 | 4 | 809 | 4.5 | 0.60 | 1.80 | 1.25 | 0.65 | 22 | 2 | 22 |
| 1355 | 4 | 4 | 810 | 2.9 | 0.20 | 1.00 | 0.75 | 0.35 | 16 | 3 | 16 |
| 1356 | 4 | 4 | 811 | 3.3 | 0.25 | 1.15 | 0.75 | 0.35 | 16 | 1 | 16 |
| 1357 | 4 | 4 | 812 | 3.2 | 0.35 | 0.95 | 0.55 | 0.30 | 17 | 4 | 17 |
| 1358 | 4 | 4 | 813 | 3.8 | 0.25 | 1.60 | 1.25 | 0.60 | 20 | 3 | 20 |
| 1359 | 4 | 4 | 815 | 3.7 | 0.15 | 1.80 | 1.50 | 0.70 | 19 | 1 | 19 |
| 1360 | 4 | 4 | 816 | 2.0 | 0.20 | 0.80 | 0.85 | 0.45 | 13 | 2 | 13 |
| 1361 | 4 | 4 | 817 | 4.3 | 0.45 | 1.40 | 0.95 | 0.45 | 19 | 1 | 19 |
| 1362 | 4 | 4 | 819 | 5.1 | 0.55 | 1.75 | 1.00 | 0.45 | 21 | 3 | 21 |
| 1363 | 4 | 4 | 822 | 3.5 | 0.30 | 1.40 | 0.95 | 0.45 | 14 | 1 | 14 |
| 1364 | 4 | 4 | 823 | 2.0 | 0.10 | 0.75 | 0.70 | 0.35 | 18 | 2 | 18 |
| 1365 | 4 | 4 | 824 | 5.3 | 0.30 | 1.90 | 1.10 | 0.45 | 20 | 3 | 20 |
| 1366 | 4 | 4 | 825 | 3.7 | 0.20 | 1.30 | 0.85 | 0.40 | 18 | 1 | 18 |
| 1367 | 4 | 4 | 826 | 3.1 | 0.15 | 1.20 | 0.75 | 0.35 | 18 | 3 | 18 |
| 1368 | 4 | 4 | 828 | 3.9 | 0.30 | 1.45 | 1.00 | 0.45 | 17 | 1 | 17 |
| 1369 | 4 | 4 | 833 | 3.5 | 0.20 | 1.60 | 1.20 | 0.60 | 15 | 1 | 15 |
| 1370 | 4 | 4 | 834 | 2.9 | 0.25 | 1.00 | 0.95 | 0.45 | 14 | 2 | 14 |
| 1371 | 4 | 4 | 835 | 5.3 | 0.75 | 1.55 | 1.10 | 0.55 | 25 | 1 | 25 |
| 1372 | 4 | 4 | 837 | 2.6 | 0.10 | 1.15 | 0.80 | 0.40 | 15 | 1 | 15 |
| 1373 | 4 | 4 | 838 | 4.2 | 0.30 | 1.30 | 0.60 | 0.30 | 24 | 1 | 24 |
| 1374 | 4 | 4 | 839 | 4.6 | 0.35 | 1.70 | 0.85 | 0.40 | 25 | 2 | 25 |
| 1375 | 4 | 4 | 841 | 4.0 | 0.25 | 1.30 | 0.85 | 0.40 | 21 | 3 | 21 |
| 1376 | 4 | 4 | 842 | 3.0 | 0.20 | 1.10 | 0.65 | 0.30 | 18 | 1 | 18 |
| 1377 | 4 | 4 | 844 | 2.8 | 0.20 | 1.05 | 0.95 | 0.45 | 14 | 3 | 14 |
| 1378 | 4 | 4 | 845 | 3.7 | 0.35 | 1.15 | 0.90 | 0.45 | 18 | 2 | 18 |
| 1379 | 4 | 4 | 847 | 3.0 | 0.15 | 1.25 | 0.95 | 0.55 | 15 | 1 | 15 |
| 1380 | 4 | 4 | 849 | 4.2 | 0.20 | 1.50 | 0.90 | 0.45 | 18 | 2 | 18 |
| 1381 | 4 | 4 | 850 | 4.6 | 0.20 | 2.00 | 0.85 | 0.40 | 21 | 2 | 21 |
| 1382 | 4 | 4 | 851 | 3.5 | 0.15 | 1.15 | 0.60 | 0.30 | 20 | 3 | 20 |
| 1383 | 4 | 4 | 853 | 4.1 | 0.30 | 1.70 | 1.30 | 0.60 | 17 | 2 | 17 |
| 1384 | 4 | 4 | 854 | 4.1 | 0.40 | 1.55 | 0.90 | 0.40 | 19 | 2 | 19 |
| 1385 | 4 | 4 | 855 | 3.6 | 0.35 | 1.30 | 0.80 | 0.35 | 19 | 1 | 19 |
| 1386 | 4 | 4 | 856 | 2.8 | 0.25 | 1.00 | 0.45 | 0.25 | 19 | 3 | 19 |
| 1387 | 4 | 4 | 858 | 2.0 | 0.15 | 0.75 | 0.70 | 0.35 | 14 | 2 | 14 |
| 1388 | 4 | 4 | 859 | 2.9 | 0.35 | 1.40 | 0.90 | 0.40 | 16 | 2 | 16 |
| 1389 | 4 | 4 | 860 | 4.1 | 0.55 | 1.10 | 0.60 | 0.25 | 16 | 1 | 16 |
| 1390 | 4 | 4 | 861 | 3.0 | 0.25 | 1.40 | 0.80 | 0.35 | 16 | 1 | 16 |
| 1391 | 4 | 4 | 862 | 3.2 | 0.30 | 1.10 | 0.85 | 0.40 | 16 | 1 | 16 |
| 1392 | 4 | 4 | 863 | 4.4 | 0.35 | 1.55 | 0.80 | 0.35 | 22 | 5 | 22 |
| 1393 | 4 | 4 | 864 | 3.2 | 0.40 | 1.15 | 0.65 | 0.30 | 17 | 3 | 17 |
| 1394 | 4 | 4 | 865 | 3.8 | 0.30 | 1.60 | 1.10 | 0.50 | 19 | 3 | 19 |
| 1395 | 4 | 4 | 866 | 2.8 | 0.15 | 1.25 | 0.90 | 0.45 | 18 | 4 | 18 |
| 1396 | 4 | 4 | 867 | 2.7 | 0.45 | 0.55 | 0.75 | 0.30 | 17 | 3 | 17 |
| 1397 | 4 | 4 | 869 | 2.9 | 0.25 | 0.85 | 0.55 | 0.25 | 14 | 4 | 14 |
| 1398 | 4 | 4 | 870 | 4.0 | 0.55 | 1.50 | 1.00 | 0.50 | 19 | 4 | 19 |
| 1399 | 4 | 4 | 871 | 2.9 | 0.25 | 1.30 | 0.90 | 0.45 | 17 | 3 | 17 |
| 1400 | 4 | 4 | 873 | 2.9 | 0.15 | 1.10 | 0.85 | 0.40 | 15 | 3 | 15 |
| 1401 | 4 | 4 | 874 | 2.5 | 0.20 | 1.00 | 0.85 | 0.45 | 14 | 3 | 14 |
| 1402 | 4 | 4 | 875 | 3.0 | 0.25 | 1.05 | 0.55 | 0.25 | 17 | 4 | 17 |
| 1403 | 4 | 4 | 876 | 3.0 | 0.20 | 1.10 | 0.60 | 0.35 | 16 | 5 | 16 |
| 1404 | 4 | 4 | 877 | 2.1 | 0.10 | 0.75 | 0.60 | 0.30 | 12 | 2 | 12 |
| 1405 | 4 | 4 | 878 | 3.7 | 0.50 | 1.25 | 0.95 | 0.45 | 18 | 2 | 18 |
| 1406 | 4 | 4 | 879 | 3.3 | 0.35 | 1.40 | 0.95 | 0.45 | 17 | 2 | 17 |
| 1407 | 4 | 4 | 881 | 3.2 | 0.00 | 1.45 | 0.95 | 0.50 | 10 | 2 | 10 |
| 1408 | 4 | 4 | 882 | 2.7 | 0.10 | 1.20 | 0.90 | 0.45 | 14 | 3 | 14 |
| 1409 | 4 | 5 | 884 | 4.1 | 0.40 | 1.55 | 1.05 | 0.45 | 22 | 1 | 22 |
| 1410 | 4 | 5 | 885 | 3.2 | 0.15 | 1.20 | 0.75 | 0.40 | 18 | 2 | 18 |
| 1411 | 4 | 5 | 886 | 4.2 | 0.35 | 1.20 | 0.80 | 0.35 | 17 | 3 | 17 |
| 1412 | 4 | 5 | 887 | 2.0 | 0.00 | 0.80 | 0.60 | 0.30 | 12 | 3 | 12 |
| 1413 | 4 | 5 | 888 | 3.8 | 0.45 | 1.65 | 1.15 | 0.55 | 18 | 4 | 18 |
| 1414 | 4 | 5 | 889 | 3.2 | 0.20 | 0.95 | 0.65 | 0.25 | 18 | 1 | 18 |
| 1415 | 4 | 5 | 890 | 4.6 | 0.30 | 1.30 | 0.90 | 0.45 | 18 | 1 | 18 |
| 1416 | 4 | 5 | 891 | 3.6 | 0.25 | 1.05 | 0.65 | 0.30 | 22 | 3 | 22 |
| 1417 | 4 | 5 | 892 | 4.2 | 0.20 | 1.80 | 1.15 | 0.55 | 19 | 1 | 19 |
| 1418 | 4 | 5 | 893 | 3.3 | 0.30 | 1.20 | 0.90 | 0.45 | 17 | 3 | 17 |
| 1419 | 4 | 5 | 894 | 1.9 | 0.20 | 0.65 | 0.45 | 0.20 | 14 | 3 | 14 |
| 1420 | 4 | 5 | 895 | 3.2 | 0.10 | 1.15 | 1.00 | 0.45 | 15 | 3 | 15 |
| 1421 | 4 | 5 | 896 | 2.1 | 0.05 | 0.90 | 0.75 | 0.40 | 13 | 1 | 13 |
| 1422 | 4 | 5 | 897 | 3.2 | 0.20 | 1.25 | 0.65 | 0.30 | 19 | 3 | 19 |
| 1423 | 4 | 5 | 898 | 2.2 | 0.10 | 0.90 | 0.80 | 0.35 | 14 | 3 | 14 |
| 1424 | 4 | 5 | 899 | 2.8 | 0.20 | 1.10 | 0.95 | 0.50 | 14 | 1 | 14 |
| 1425 | 4 | 5 | 900 | 2.2 | 0.10 | 0.80 | 0.70 | 0.40 | 14 | 4 | 14 |
| 1426 | 4 | 5 | 901 | 4.0 | 0.45 | 1.60 | 1.00 | 0.50 | 20 | 2 | 20 |
| 1427 | 4 | 5 | 902 | 2.6 | 0.10 | 1.00 | 0.75 | 0.35 | 16 | 4 | 16 |
| 1428 | 4 | 5 | 903 | 4.2 | 0.30 | 1.15 | 0.80 | 0.40 | 20 | 1 | 20 |
| 1429 | 4 | 5 | 904 | 2.5 | 0.35 | 0.85 | 0.60 | 0.30 | 16 | 4 | 16 |
| 1430 | 4 | 5 | 905 | 3.6 | 0.10 | 1.85 | 1.20 | 0.60 | 18 | 1 | 18 |
| 1431 | 4 | 5 | 906 | 4.4 | 0.35 | 1.30 | 0.90 | 0.40 | 19 | 1 | 19 |
| 1432 | 4 | 5 | 907 | 2.9 | 0.20 | 1.25 | 0.85 | 0.40 | 15 | 1 | 15 |
| 1433 | 4 | 5 | 908 | 3.8 | 0.30 | 0.95 | 0.75 | 0.30 | 20 | 3 | 20 |
| 1434 | 4 | 5 | 909 | 3.5 | 0.20 | 1.50 | 0.90 | 0.40 | 19 | 1 | 19 |
| 1435 | 4 | 5 | 910 | 2.8 | 0.20 | 1.10 | 1.00 | 0.45 | 15 | 2 | 15 |
| 1436 | 4 | 5 | 911 | 5.9 | 0.50 | 2.00 | 1.00 | 0.45 | 22 | 1 | 22 |
| 1437 | 4 | 5 | 912 | 4.5 | 0.30 | 1.35 | 0.75 | 0.40 | 22 | 1 | 22 |
| 1438 | 4 | 5 | 913 | 1.8 | 0.05 | 0.75 | 0.50 | 0.25 | 13 | 4 | 13 |
| 1439 | 4 | 5 | 914 | 3.5 | 0.20 | 1.35 | 0.75 | 0.35 | 17 | 1 | 17 |
| 1440 | 4 | 5 | 915 | 2.8 | 0.15 | 1.05 | 0.70 | 0.35 | 17 | 2 | 17 |
| 1441 | 4 | 5 | 916 | 4.5 | 0.30 | 1.75 | 1.10 | 0.50 | 18 | 1 | 18 |
| 1442 | 4 | 5 | 917 | 3.1 | 0.20 | 1.00 | 0.70 | 0.50 | 16 | 1 | 16 |
| 1443 | 4 | 5 | 918 | 2.1 | 0.05 | 0.85 | 0.75 | 0.35 | 14 | 2 | 14 |
| 1444 | 4 | 5 | 919 | 2.5 | 0.20 | 0.95 | 0.80 | 0.40 | 14 | 1 | 14 |
| 1445 | 4 | 5 | 920 | 2.5 | 0.10 | 1.05 | 0.85 | 0.40 | 14 | 2 | 14 |
| 1446 | 4 | 5 | 921 | 1.9 | 0.10 | 0.85 | 0.70 | 0.30 | 13 | 2 | 13 |
| 1447 | 4 | 5 | 922 | 2.5 | 0.20 | 0.90 | 0.70 | 0.35 | 15 | 2 | 15 |
| 1448 | 4 | 5 | 923 | 2.5 | 0.15 | 0.95 | 0.85 | 0.40 | 16 | 3 | 16 |
| 1449 | 4 | 5 | 924 | 1.9 | 0.15 | 0.75 | 0.75 | 0.30 | 11 | 1 | 11 |
| 1450 | 4 | 5 | 925 | 2.2 | 0.15 | 0.80 | 0.80 | 0.35 | 12 | 2 | 12 |

| OBS | BLOCK | PLOT | TAG | DBH91 | HRT91 | SAP91 | RAD1091 | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 |
|-----|-------|------|-----|-------|-------|-------|---------|---------|---------|---------|---------|
| 1451 | 4 | 5 | 926 | 2.8 | 0.20 | 1.15 | 0.90 | 0.40 | 15 | 3 | 15 |
| 1452 | 4 | 5 | 927 | 3.4 | 0.30 | 1.50 | 1.00 | 0.50 | 18 | 3 | 18 |
| 1453 | 4 | 5 | 928 | 3.5 | 0.10 | 1.50 | 0.80 | 0.40 | 19 | 3 | 19 |
| 1454 | 4 | 5 | 929 | 1.9 | 0.10 | 0.90 | 0.80 | 0.40 | 13 | 3 | 13 |
| 1455 | 4 | 5 | 930 | 2.5 | 0.20 | 0.90 | 0.75 | 0.35 | 15 | 3 | 15 |
| 1456 | 4 | 5 | 931 | 3.1 | 0.20 | 1.10 | 0.75 | 0.35 | 19 | 4 | 19 |
| 1457 | 4 | 5 | 932 | 2.3 | 0.10 | 0.95 | 0.85 | 0.40 | 14 | 3 | 14 |
| 1458 | 4 | 5 | 933 | 4.4 | 0.40 | 1.50 | 1.00 | 0.45 | 18 | 1 | 18 |
| 1459 | 4 | 5 | 934 | 2.7 | 0.30 | 1.20 | 0.70 | 0.30 | 21 | 3 | 21 |
| 1460 | 4 | 5 | 935 | 4.1 | 0.30 | 1.20 | 0.85 | 0.40 | 19 | 1 | 19 |
| 1461 | 4 | 5 | 936 | 3.7 | 0.20 | 1.40 | 1.00 | 0.40 | 19 | 3 | 19 |
| 1462 | 4 | 5 | 937 | 2.2 | 0.20 | 0.95 | 0.80 | 0.40 | 16 | 2 | 16 |
| 1463 | 4 | 5 | 938 | 2.5 | 0.10 | 1.00 | 0.90 | 0.50 | 16 | 2 | 16 |
| 1464 | 4 | 5 | 939 | 3.7 | 0.25 | 1.30 | 1.00 | 0.45 | 17 | 1 | 17 |
| 1465 | 4 | 5 | 940 | 1.9 | 0.20 | 0.80 | 0.50 | 0.35 | 14 | 2 | 14 |
| 1466 | 4 | 5 | 941 | 4.1 | 0.30 | 1.40 | 1.00 | 0.45 | 15 | 1 | 15 |
| 1467 | 4 | 5 | 942 | 3.3 | 0.15 | 1.40 | 1.15 | 0.55 | 18 | 1 | 18 |
| 1468 | 4 | 5 | 943 | 2.9 | 0.35 | 1.30 | 0.90 | 0.40 | 16 | 1 | 16 |
| 1469 | 4 | 5 | 944 | 3.4 | 0.10 | 1.20 | 1.00 | 0.50 | 15 | 1 | 15 |
| 1470 | 4 | 5 | 945 | 2.9 | 0.10 | 1.05 | 0.85 | 0.35 | 14 | 1 | 14 |
| 1471 | 4 | 5 | 946 | 3.3 | 0.10 | 1.40 | 0.90 | 0.50 | 19 | 1 | 19 |
| 1472 | 4 | 5 | 947 | 2.8 | 0.15 | 1.25 | 1.10 | 0.45 | 16 | 1 | 16 |
| 1473 | 4 | 5 | 948 | 4.2 | 0.30 | 1.25 | 0.90 | 0.45 | 20 | 1 | 20 |
| 1474 | 4 | 5 | 949 | 3.4 | 0.15 | 1.50 | 1.10 | 0.40 | 16 | 2 | 16 |
| 1475 | 4 | 5 | 950 | 2.2 | 0.10 | 0.90 | 0.60 | 0.30 | 15 | 1 | 15 |
| 1476 | 4 | 5 | 951 | 7.1 | 1.30 | 2.95 | 1.35 | 0.65 | 27 | 1 | 27 |
| 1477 | 4 | 5 | 952 | 1.4 | 0.10 | 0.60 | 0.65 | 0.30 | 9 | 1 | 9 |
| 1478 | 4 | 5 | 953 | 1.8 | 0.10 | 0.60 | 0.70 | 0.35 | 9 | 1 | 9 |
| 1479 | 4 | 5 | 954 | 2.6 | 0.15 | 0.90 | 0.70 | 0.35 | 14 | 1 | 14 |
| 1480 | 4 | 5 | 955 | 3.4 | 0.30 | 1.35 | 0.90 | 0.40 | 18 | 1 | 18 |
| 1481 | 4 | 5 | 956 | 1.5 | 0.00 | 0.65 | 0.75 | 0.40 | 8 | 2 | 8 |
| 1482 | 4 | 5 | 957 | 1.8 | 0.30 | 0.75 | 0.55 | 0.25 | 10 | 1 | 10 |
| 1483 | 4 | 5 | 958 | 1.2 | 0.00 | 0.50 | 0.65 | 0.30 | 9 | 2 | 9 |
| 1484 | 4 | 5 | 959 | 2.0 | 0.10 | 0.70 | 0.80 | 0.40 | 10 | 2 | 10 |
| 1485 | 4 | 5 | 960 | 2.7 | 0.10 | 0.85 | 0.90 | 0.45 | 11 | 3 | 11 |
| 1486 | 4 | 5 | 961 | 2.4 | 0.10 | 0.85 | 0.65 | 0.30 | 12 | 3 | 12 |
| 1487 | 4 | 5 | 962 | 4.0 | 0.25 | 1.25 | 0.80 | 0.40 | 18 | 1 | 18 |
| 1488 | 4 | 5 | 963 | 1.9 | 0.20 | 0.70 | 0.65 | 0.30 | 11 | 1 | 11 |
| 1489 | 4 | 5 | 964 | 1.7 | 0.05 | 0.60 | 0.55 | 0.30 | 9 | 1 | 9 |
| 1490 | 4 | 5 | 965 | 1.8 | 0.05 | 0.80 | 0.85 | 0.45 | 10 | 3 | 10 |
| 1491 | 4 | 5 | 966 | 2.5 | 0.50 | 0.70 | 0.80 | 0.35 | 14 | 4 | 14 |
| 1492 | 4 | 5 | 967 | 4.3 | 0.45 | 1.55 | 1.05 | 0.55 | 19 | 1 | 19 |
| 1493 | 4 | 5 | 968 | 2.9 | 0.30 | 0.60 | 0.70 | 0.30 | 17 | 3 | 17 |
| 1494 | 4 | 5 | 969 | 2.9 | 0.45 | 0.80 | 1.00 | 0.50 | 14 | 1 | 14 |
| 1495 | 4 | 5 | 970 | 2.5 | 0.25 | 0.80 | 0.60 | 0.30 | 14 | 2 | 14 |
| 1496 | 4 | 5 | 971 | 2.1 | 0.00 | 0.85 | 0.70 | 0.30 | 12 | 1 | 12 |
| 1497 | 4 | 5 | 972 | 1.8 | 0.10 | 0.75 | 0.70 | 0.35 | 11 | 3 | 11 |
| 1498 | 4 | 5 | 973 | 3.1 | 0.20 | 1.25 | 1.00 | 0.50 | 14 | 3 | 14 |
| 1499 | 4 | 5 | 974 | 2.0 | 0.15 | 0.75 | 0.80 | 0.40 | 12 | 1 | 12 |
| 1500 | 4 | 5 | 975 | 1.7 | 0.10 | 0.65 | 0.65 | 0.35 | 10 | 1 | 10 |
| 1501 | 4 | 5 | 976 | 1.4 | 0.10 | 0.70 | 0.65 | 0.30 | 10 | 2 | 10 |
| 1502 | 4 | 5 | 977 | 1.9 | 0.10 | 0.70 | 0.70 | 0.35 | 11 | 3 | 11 |
| 1503 | 4 | 5 | 978 | 1.8 | 0.10 | 0.75 | 0.85 | 0.40 | 12 | 1 | 12 |
| 1504 | 4 | 5 | 979 | 1.9 | 0.15 | 0.80 | 0.80 | 0.45 | 11 | 3 | 11 |
| 1505 | 4 | 5 | 980 | 1.3 | 0.00 | 0.70 | 0.65 | 0.30 | 9 | 3 | 9 |
| 1506 | 4 | 5 | 981 | 1.5 | 0.00 | 0.60 | 0.60 | 0.25 | 11 | 1 | 11 |
| 1507 | 4 | 5 | 982 | 2.8 | 0.20 | 1.15 | 0.80 | 0.35 | 14 | 3 | 14 |
| 1508 | 4 | 5 | 983 | 2.9 | 0.20 | 1.10 | 0.70 | 0.30 | 15 | 2 | 15 |
| 1509 | 4 | 5 | 984 | 1.8 | 0.15 | 0.80 | 0.75 | 0.35 | 13 | 1 | 13 |
| 1510 | 4 | 5 | 985 | 3.0 | 0.20 | 1.05 | 0.90 | 0.45 | 15 | 3 | 15 |
| 1511 | 4 | 5 | 986 | 3.1 | 0.25 | 1.40 | 0.80 | 0.30 | 16 | 1 | 16 |
| 1512 | 4 | 5 | 987 | 2.5 | 0.20 | 0.90 | 0.85 | 0.40 | 13 | 1 | 13 |
| 1513 | 4 | 5 | 988 | 1.7 | 0.10 | 0.55 | 0.65 | 0.30 | 10 | 2 | 10 |
| 1514 | 4 | 5 | 989 | 2.0 | 0.20 | 0.65 | 0.65 | 0.30 | 10 | 1 | 10 |
| 1515 | 4 | 5 | 990 | 1.7 | 0.20 | 0.80 | 0.75 | 0.30 | 12 | 3 | 12 |
| 1516 | 4 | 5 | 991 | 2.3 | 0.15 | 0.90 | 0.80 | 0.45 | 13 | 1 | 13 |
| 1517 | 4 | 5 | 992 | 2.8 | 0.15 | 1.05 | 0.70 | 0.35 | 15 | 1 | 15 |
| 1518 | 4 | 5 | 993 | 3.0 | 0.25 | 0.95 | 0.80 | 0.40 | 13 | 1 | 13 |
| 1519 | 4 | 5 | 994 | 1.4 | 0.10 | 0.65 | 0.60 | 0.30 | 10 | 1 | 10 |
| 1520 | 4 | 5 | 995 | 1.5 | 0.10 | 0.65 | 0.60 | 0.30 | 10 | 1 | 10 |

| OBS | BLCK | PLOT | TTAG | STAG92 | DBR92 | HT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRNHT92 | CRNTP92 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 0 | 7.2 | 1.85 | 1.70 | 0.10 | 0.05 | 40 | 17 | 40 |
| 2 | 1 | 1 | 9 | 0 | 7.4 | 1.60 | 1.60 | 0.20 | 0.10 | 41 | 14 | 41 |
| 3 | 1 | 1 | 18 | 0 | 7.4 | 2.40 | 1.55 | 0.35 | 0.20 | 44 | 16 | 44 |
| 4 | 1 | 1 | 24 | 0 | 8.3 | 2.80 | 1.60 | 0.30 | 0.15 | 46 | 26 | 46 |
| 5 | 1 | 1 | 30 | 0 | 5.6 | 1.40 | 1.10 | 0.20 | 0.25 | 39 | 23 | 39 |
| 6 | 1 | 1 | 35 | 2 | 6.9 | 2.05 | 1.60 | 0.25 | 0.10 | 41 | 27 | 41 |
| 7 | 1 | 1 | 38 | 0 | 5.8 | 2.10 | 0.40 | 0.30 | 0.15 | 37 | 16 | 37 |
| 8 | 1 | 1 | 43 | 0 | 7.7 | 1.80 | 1.65 | 0.30 | 0.15 | 42 | 20 | 42 |
| 9 | 1 | 1 | 48 | 0 | 7.1 | 1.90 | 1.75 | 0.20 | 0.10 | 39 | 26 | 39 |
| 10 | 1 | 1 | 57 | 0 | 6.7 | 1.70 | 1.90 | 0.20 | 0.10 | 36 | 17 | 36 |
| 11 | 1 | 1 | 62 | 0 | 7.3 | 2.35 | 1.50 | 0.25 | 0.15 | 39 | 12 | 39 |
| 12 | 1 | 1 | 70 | 0 | 7.2 | 1.80 | 1.65 | 0.35 | 0.20 | 41 | 26 | 41 |
| 13 | 1 | 2 | 73 | 0 | 8.9 | 2.70 | 1.45 | 0.20 | 0.10 | 49 | 25 | 49 |
| 14 | 1 | 2 | 80 | 0 | 7.2 | 1.15 | 2.70 | 0.25 | 0.10 | 46 | 21 | 46 |
| 15 | 1 | 2 | 86 | 2 | 6.3 | 1.70 | 1.25 | 0.20 | 0.10 | 43 | 29 | 43 |
| 16 | 1 | 2 | 89 | 0 | 6.6 | 1.50 | 1.15 | 0.20 | 0.10 | 38 | 18 | 38 |
| 17 | 1 | 2 | 94 | 1 | 6.3 | 1.65 | 0.95 | 0.10 | 0.05 | 40 | 24 | 40 |
| 18 | 1 | 2 | 98 | 0 | 6.1 | 1.90 | 0.85 | 0.25 | 0.10 | 32 | 19 | 32 |
| 19 | 1 | 2 | 106 | 0 | 6.4 | 1.65 | 1.65 | 0.30 | 0.15 | 40 | 18 | 40 |
| 20 | 1 | 2 | 110 | 1 | 7.9 | 2.10 | 1.90 | 0.30 | 0.15 | 41 | 24 | 41 |
| 21 | 1 | 2 | 113 | 2 | 5.9 | 1.60 | 1.30 | 0.20 | 0.10 | 43 | 26 | 43 |
| 22 | 1 | 2 | 117 | 0 | 8.6 | 2.10 | 2.40 | 0.40 | 0.15 | 48 | 17 | 48 |
| 23 | 1 | 2 | 126 | 0 | 6.4 | 1.65 | 1.10 | 0.20 | 0.10 | 44 | 11 | 44 |
| 24 | 1 | 2 | 136 | 0 | 6.3 | 1.05 | 1.70 | 0.15 | 0.05 | 38 | 19 | 38 |
| 25 | 1 | 2 | 145 | 0 | 7.5 | 1.45 | 1.85 | 0.20 | 0.10 | 39 | 7 | 39 |
| 26 | 1 | 2 | 154 | 0 | 6.6 | 1.65 | 1.35 | 0.20 | 0.10 | 36 | 16 | 36 |
| 27 | 1 | 2 | 161 | 0 | 6.9 | 1.65 | 1.30 | 0.25 | 0.10 | 39 | 20 | 39 |
| 28 | 1 | 3 | 163 | 0 | 6.5 | 1.30 | 1.70 | 0.25 | 0.10 | 40 | 20 | 40 |
| 29 | 1 | 3 | 170 | 0 | 6.5 | 2.10 | 1.60 | 0.25 | 0.15 | 39 | 20 | 39 |
| 30 | 1 | 3 | 175 | 0 | 4.1 | 0.95 | 0.80 | 0.10 | 0.10 | 37 | 21 | 37 |
| 31 | 1 | 3 | 181 | 0 | 5.5 | 2.35 | 0.80 | 0.10 | 0.05 | 36 | 26 | 36 |
| 32 | 1 | 3 | 187 | 0 | 6.1 | 1.55 | 1.55 | 0.15 | 0.05 | 32 | 15 | 32 |
| 33 | 1 | 3 | 194 | 0 | 6.6 | 1.60 | 2.10 | 0.20 | 0.10 | 42 | 25 | 42 |
| 34 | 1 | 3 | 199 | 0 | 6.5 | 1.55 | 1.15 | 0.15 | 0.10 | 39 | 9 | 39 |
| 35 | 1 | 3 | 208 | 0 | 6.3 | 1.70 | 1.55 | 0.10 | 0.05 | 41 | 25 | 41 |
| 36 | 1 | 3 | 210 | 1 | 6.3 | 1.80 | 0.95 | 0.15 | 0.05 | 45 | 23 | 45 |
| 37 | 1 | 3 | 215 | 0 | 5.5 | 0.95 | 1.05 | 0.15 | 0.10 | 37 | 25 | 37 |
| 38 | 1 | 3 | 220 | 0 | 5.8 | 1.45 | 1.70 | 0.20 | 0.10 | 38 | 23 | 38 |
| 39 | 1 | 3 | 225 | 0 | 6.9 | 1.80 | 1.45 | 0.15 | 0.05 | 41 | 22 | 41 |
| 40 | 1 | 3 | 230 | 0 | 7.5 | 1.25 | 2.85 | 0.25 | 0.10 | 43 | 25 | 43 |
| 41 | 1 | 3 | 235 | 0 | 7.2 | 1.25 | 1.80 | 0.15 | 0.05 | 43 | 19 | 43 |
| 42 | 1 | 4 | 236 | 0 | 7.7 | 1.70 | 1.40 | 0.20 | 0.10 | 48 | 30 | 48 |
| 43 | 1 | 4 | 241 | 0 | 7.6 | 2.15 | 0.95 | 0.20 | 0.10 | 49 | 29 | 49 |
| 44 | 1 | 4 | 243 | 2 | 6.2 | 2.30 | 1.95 | 0.15 | 0.05 | 42 | 31 | 42 |

| OBS | BLCK | PLOT | TTAG | STAG92 | DBR92 | HT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRNHT92 | CRNTP92 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 1 | 4 | 247 | 0 | 6.4 | 1.75 | 0.80 | 0.30 | 0.15 | 45 | 26 | 45 |
| 46 | 1 | 4 | 252 | 2 | 5.8 | 1.65 | 2.00 | 0.40 | 0.15 | 40 | 26 | 40 |
| 47 | 1 | 4 | 253 | 0 | 7.8 | 1.80 | 1.25 | 0.25 | 0.10 | 45 | 21 | 45 |
| 48 | 1 | 4 | 258 | 0 | 4.8 | 0.90 | 1.05 | 0.15 | 0.05 | 35 | 22 | 35 |
| 49 | 1 | 4 | 263 | 0 | 5.9 | 1.05 | 1.30 | 0.20 | 0.10 | 41 | 27 | 41 |
| 50 | 1 | 4 | 264 | 1 | 8.1 | 1.80 | 1.40 | 0.25 | 0.15 | 42 | 28 | 42 |
| 51 | 1 | 4 | 269 | 0 | 6.4 | 1.55 | 1.25 | 0.25 | 0.10 | 42 | 22 | 42 |
| 52 | 1 | 4 | 270 | 2 | 5.8 | 1.50 | 1.15 | 0.15 | 0.05 | 39 | 24 | 39 |
| 53 | 1 | 4 | 272 | 2 | 3.5 | 0.95 | 0.75 | 0.20 | 0.10 | 34 | 27 | 34 |
| 54 | 1 | 4 | 276 | 0 | 7.8 | 1.90 | 1.35 | 0.15 | 0.10 | 44 | 19 | 44 |
| 55 | 1 | 4 | 281 | 0 | 8.8 | 1.95 | 2.35 | 0.30 | 0.15 | 54 | 29 | 54 |
| 56 | 1 | 4 | 286 | 0 | 7.2 | 1.25 | 1.50 | 0.10 | 0.05 | 43 | 20 | 43 |
| 57 | 1 | 4 | 291 | 0 | 7.2 | 2.05 | 1.40 | 0.35 | 0.15 | 42 | 21 | 42 |
| 58 | 1 | 4 | 296 | 0 | 4.1 | 0.95 | 0.95 | 0.20 | 0.10 | 35 | 16 | 35 |
| 59 | 1 | 4 | 302 | 0 | 6.6 | 1.55 | 1.20 | 0.15 | 0.05 | 39 | 20 | 39 |
| 60 | 1 | 4 | 307 | 2 | 6.2 | 1.75 | 1.55 | 0.10 | 0.25 | 42 | 20 | 42 |
| 61 | 1 | 4 | 308 | 1 | 9.4 | 2.10 | 1.35 | 0.20 | 0.10 | 50 | 34 | 50 |
| 62 | 1 | 4 | 309 | 0 | 5.7 | 1.15 | 1.10 | 0.15 | 0.05 | 38 | 20 | 38 |
| 63 | 1 | 4 | 312 | 2 | 6.7 | 1.75 | 1.95 | 0.25 | 0.10 | 45 | 31 | 45 |
| 64 | 1 | 4 | 317 | 0 | 7.7 | 1.65 | 1.25 | 0.20 | 0.10 | 47 | 25 | 47 |
| 65 | 1 | 4 | 322 | 0 | 8.2 | 2.05 | 1.90 | 0.30 | 0.15 | 47 | 27 | 47 |
| 66 | 2 | 1 | 327 | 0 | 6.3 | 1.85 | 1.25 | 0.20 | 0.10 | 36 | 15 | 36 |
| 67 | 2 | 1 | 330 | 2 | 4.9 | 1.60 | 0.85 | 0.10 | 0.05 | 36 | 20 | 36 |
| 68 | 2 | 1 | 333 | 0 | 5.0 | 1.25 | 0.95 | 0.10 | 0.05 | 33 | 16 | 33 |
| 69 | 2 | 1 | 339 | 2 | 5.0 | 1.50 | 0.85 | 0.10 | 0.05 | 34 | 22 | 34 |
| 70 | 2 | 1 | 341 | 0 | 5.3 | 1.70 | 1.10 | 0.20 | 0.05 | 35 | 10 | 35 |
| 71 | 2 | 1 | 350 | 0 | 3.9 | 1.10 | 0.85 | 0.10 | 0.15 | 30 | 13 | 30 |
| 72 | 2 | 1 | 353 | 2 | 5.2 | 1.65 | 1.30 | 0.30 | 0.15 | 37 | 20 | 37 |
| 73 | 2 | 1 | 363 | 0 | 5.4 | 1.60 | 0.90 | 0.05 | 0.15 | 31 | 14 | 31 |
| 74 | 2 | 1 | 370 | 0 | 3.9 | 1.00 | 0.60 | 0.10 | 0.05 | 31 | 13 | 31 |
| 75 | 2 | 1 | 372 | 2 | 5.3 | 1.45 | 0.85 | 0.20 | 0.10 | 32 | 13 | 32 |
| 76 | 2 | 1 | 377 | 0 | 4.2 | 1.50 | 0.75 | 0.15 | 0.05 | 30 | 7 | 30 |
| 77 | 2 | 1 | 386 | 2 | 3.1 | 0.65 | 0.70 | 0.15 | 0.10 | 26 | 14 | 26 |
| 78 | 2 | 1 | 387 | 0 | 4.8 | 1.50 | 0.95 | 0.20 | 0.10 | 31 | 8 | 31 |
| 79 | 2 | 1 | 396 | 0 | 4.3 | 1.65 | 0.80 | 0.10 | 0.05 | 33 | 12 | 33 |
| 80 | 2 | 1 | 401 | 1 | 6.0 | 2.10 | 0.00 | 0.15 | 0.05 | 35 | 20 | 35 |
| 81 | 2 | 1 | 406 | 0 | 7.9 | 2.10 | 1.10 | 0.15 | 0.05 | 40 | 6 | 40 |
| 82 | 2 | 1 | 415 | 0 | 6.1 | 1.60 | 1.15 | 0.20 | 0.10 | 36 | 8 | 36 |
| 83 | 2 | 1 | 427 | 0 | 6.7 | 2.10 | 1.00 | 0.20 | 0.10 | 37 | 16 | 37 |
| 84 | 2 | 1 | 433 | 2 | 6.0 | 1.75 | 1.00 | 0.10 | 0.05 | 37 | 24 | 37 |
| 85 | 2 | 1 | 434 | 0 | 7.1 | 1.90 | 1.20 | 0.20 | 0.10 | 40 | 14 | 40 |
| 86 | 2 | 1 | 442 | 0 | 4.5 | 0.85 | 1.00 | 0.15 | 0.05 | 33 | 11 | 33 |
| 87 | 2 | 1 | 449 | 0 | 4.9 | 1.30 | 0.75 | 0.10 | 0.05 | 31 | 12 | 31 |
| 88 | 2 | 1 | 456 | 0 | 7.7 | 2.00 | 1.55 | 0.20 | 0.10 | 42 | 12 | 42 |

| OBS | BLOCK | PLOT | TAG | STAT92 | DB92 | HRT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRHT92 | CRNTP92 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 2 | 1 | 464 | 0 | 3.6 | 0.60 | 0.70 | 0.10 | 0.05 | 28 | 13 | 28 |
| 90 | 2 | 2 | 475 | 0 | 4.8 | 0.75 | 1.45 | 0.15 | 0.05 | 32 | 14 | 32 |
| 91 | 2 | 2 | 479 | 2 | 3.9 | 1.00 | 0.80 | 0.10 | 0.05 | 32 | 20 | 32 |
| 92 | 2 | 2 | 481 | 0 | 5.5 | 1.30 | 1.10 | 0.20 | 0.10 | 33 | 15 | 33 |
| 93 | 2 | 2 | 487 | 0 | 6.5 | 2.00 | 0.95 | 0.20 | 0.10 | 40 | 14 | 40 |
| 94 | 2 | 2 | 488 | 2 | 3.7 | 0.75 | 1.00 | 0.10 | 0.05 | 30 | 20 | 30 |
| 95 | 2 | 2 | 493 | 0 | 6.5 | 1.85 | 0.95 | 0.10 | 0.05 | 40 | 6 | 40 |
| 96 | 2 | 2 | 498 | 0 | 5.5 | 0.65 | 1.35 | 0.20 | 0.10 | 36 | 20 | 36 |
| 97 | 2 | 2 | 506 | 0 | 5.6 | 0.90 | 1.55 | 0.10 | 0.05 | 39 | 23 | 39 |
| 98 | 2 | 2 | 507 | 2 | 4.1 | 1.45 | 0.55 | 0.10 | 0.05 | 34 | 23 | 34 |
| 99 | 2 | 2 | 513 | 2 | 5.5 | 1.50 | 1.00 | 0.15 | 0.05 | 39 | 23 | 39 |
| 100 | 2 | 2 | 514 | 0 | 5.5 | 1.35 | 0.80 | 0.10 | 0.05 | 32 | 11 | 32 |
| 101 | 2 | 2 | 519 | 2 | 5.3 | 1.65 | 0.75 | 0.10 | 0.05 | 36 | 23 | 36 |
| 102 | 2 | 2 | 521 | 0 | 5.6 | 1.10 | 0.85 | 0.20 | 0.10 | 36 | 6 | 36 |
| 103 | 2 | 2 | 526 | 0 | 7.4 | 1.80 | 1.10 | 0.30 | 0.10 | 46 | 20 | 46 |
| 104 | 2 | 2 | 533 | 2 | 5.3 | 1.50 | 0.90 | 0.05 | 0.00 | 37 | 25 | 37 |
| 105 | 2 | 2 | 537 | 2 | 4.2 | 1.25 | 1.10 | 0.20 | 0.10 | 29 | 21 | 29 |
| 106 | 2 | 2 | 539 | 0 | 4.9 | 1.40 | 1.00 | 0.15 | 0.05 | 32 | 14 | 32 |
| 107 | 2 | 2 | 542 | 2 | 4.0 | 0.95 | 0.65 | 0.15 | 0.05 | 31 | 15 | 31 |
| 108 | 2 | 2 | 545 | 0 | 5.6 | 1.30 | 0.90 | 0.10 | 0.05 | 35 | 8 | 35 |
| 109 | 2 | 2 | 546 | 1 | 5.8 | 2.00 | 1.00 | 0.10 | 0.05 | 40 | 20 | 40 |
| 110 | 2 | 2 | 557 | 0 | 3.2 | 0.70 | 0.40 | 0.10 | 0.05 | 28 | 12 | 28 |
| 111 | 2 | 2 | 564 | 0 | 6.5 | 2.00 | 1.15 | 0.10 | 0.05 | 36 | 14 | 36 |
| 112 | 2 | 2 | 568 | 1 | 5.8 | 2.25 | 0.75 | 0.15 | 0.10 | 38 | 19 | 38 |
| 113 | 2 | 2 | 570 | 0 | 6.2 | 1.45 | 1.25 | 0.20 | 0.10 | 40 | 13 | 40 |
| 114 | 2 | 2 | 577 | 0 | 3.9 | 1.15 | 0.60 | 0.10 | 0.05 | 30 | 20 | 30 |
| 115 | 2 | 2 | 578 | 2 | 4.9 | 1.45 | 0.75 | 0.10 | 0.05 | 32 | 19 | 32 |
| 116 | 2 | 2 | 583 | 0 | 5.4 | 1.20 | 0.85 | 0.15 | 0.05 | 36 | 17 | 36 |
| 117 | 2 | 2 | 587 | 2 | 4.9 | 0.95 | 1.25 | 0.25 | 0.10 | 28 | 15 | 28 |
| 118 | 2 | 2 | 589 | 0 | 5.9 | 1.80 | 0.80 | 0.15 | 0.05 | 37 | 12 | 37 |
| 119 | 2 | 2 | 596 | 0 | 7.9 | 2.25 | 1.50 | 0.10 | 0.05 | 46 | 8 | 46 |
| 120 | 2 | 2 | 601 | 2 | 4.4 | 1.25 | 1.05 | 0.15 | 0.05 | 36 | 15 | 36 |
| 121 | 2 | 2 | 602 | 2 | 6.3 | 1.75 | 0.90 | 0.15 | 0.05 | 40 | 23 | 40 |
| 122 | 2 | 2 | 605 | 0 | 5.7 | 1.25 | 0.75 | 0.10 | 0.05 | 38 | 21 | 38 |
| 123 | 2 | 2 | 610 | 2 | 5.3 | 1.70 | 0.85 | 0.20 | 0.10 | 36 | 18 | 36 |
| 124 | 2 | 2 | 613 | 0 | 5.7 | 1.25 | 0.95 | 0.15 | 0.05 | 36 | 14 | 36 |
| 125 | 2 | 2 | 616 | 2 | 4.3 | 1.25 | 0.70 | 0.10 | 0.05 | 32 | 18 | 32 |
| 126 | 2 | 2 | 621 | 0 | 5.6 | 1.50 | 1.35 | 0.20 | 0.10 | 38 | 15 | 38 |
| 127 | 2 | 3 | 632 | 0 | 6.3 | 1.60 | 1.00 | 0.20 | 0.10 | 41 | 8 | 44 |
| 128 | 2 | 3 | 638 | 0 | 6.6 | 1.40 | 1.10 | 0.15 | 0.10 | 41 | 12 | 41 |
| 129 | 2 | 3 | 646 | 0 | 5.1 | 1.55 | 0.75 | 0.15 | 0.10 | 32 | 18 | 32 |
| 130 | 2 | 3 | 652 | 0 | 6.1 | 1.95 | 1.15 | 0.15 | 0.10 | 34 | 11 | 34 |
| 131 | 2 | 3 | 657 | 0 | 7.4 | 2.25 | 2.35 | 0.20 | 0.10 | 42 | 11 | 42 |
| 132 | 2 | 3 | 662 | 0 | 6.2 | 1.45 | 0.90 | 0.15 | 0.05 | 38 | 17 | 38 |

| OBS | BLOCK | PLOT | TAG | STAT92 | DB92 | HRT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRHT92 | CRNTP92 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133 | 2 | 3 | 668 | 0 | 5.8 | 1.10 | 1.15 | 0.20 | 0.10 | 35 | 14 | 35 |
| 134 | 2 | 3 | 673 | 0 | 6.5 | 1.40 | 1.60 | 0.25 | 0.10 | 41 | 20 | 41 |
| 135 | 2 | 3 | 688 | 0 | 6.4 | 1.30 | 1.10 | 0.20 | 0.10 | 33 | 13 | 33 |
| 136 | 2 | 3 | 702 | 0 | 5.6 | 1.45 | 0.65 | 0.20 | 0.10 | 32 | 6 | 32 |
| 137 | 2 | 3 | 713 | 0 | 5.3 | 1.40 | 0.85 | 0.15 | 0.05 | 37 | 21 | 37 |
| 138 | 2 | 3 | 718 | 0 | 5.7 | 1.55 | 0.95 | 0.25 | 0.10 | 36 | 17 | 36 |
| 139 | 2 | 3 | 726 | 0 | 5.3 | 0.65 | 1.60 | 0.25 | 0.10 | 42 | 5 | 42 |
| 140 | 2 | 3 | 734 | 0 | 7.1 | 1.80 | 1.30 | 0.25 | 0.10 | 33 | 6 | 33 |
| 141 | 2 | 4 | 747 | 0 | 6.3 | 1.80 | 1.20 | 0.15 | 0.05 | 35 | 12 | 35 |
| 142 | 2 | 4 | 754 | 0 | 5.3 | 0.95 | 1.40 | 0.25 | 0.10 | 33 | 15 | 33 |
| 143 | 2 | 4 | 760 | 0 | 4.7 | 1.15 | 1.10 | 0.20 | 0.10 | 30 | 11 | 30 |
| 144 | 2 | 4 | 769 | 0 | 5.0 | 1.30 | 0.95 | 0.20 | 0.10 | 35 | 13 | 35 |
| 145 | 2 | 4 | 774 | 0 | 4.6 | 1.45 | 0.65 | 0.10 | 0.05 | 32 | 10 | 32 |
| 146 | 2 | 4 | 783 | 0 | 4.4 | 1.30 | 1.10 | 0.15 | 0.05 | 33 | 13 | 33 |
| 147 | 2 | 4 | 790 | 0 | 5.1 | 1.80 | 0.75 | 0.15 | 0.05 | 32 | 11 | 37 |
| 148 | 2 | 4 | 795 | 0 | 6.6 | 1.75 | 1.55 | 0.30 | 0.15 | 34 | 15 | 34 |
| 149 | 2 | 4 | 801 | 0 | 4.9 | 1.30 | 1.05 | 0.20 | 0.10 | 33 | 11 | 33 |
| 150 | 2 | 4 | 811 | 0 | 4.8 | 1.60 | 0.60 | 0.30 | 0.15 | 32 | 13 | 32 |
| 151 | 2 | 4 | 821 | 0 | 6.5 | 2.00 | 1.50 | 0.35 | 0.15 | 38 | 10 | 38 |
| 152 | 2 | 4 | 827 | 0 | 5.5 | 1.25 | 1.15 | 0.25 | 0.10 | 36 | 15 | 36 |
| 153 | 2 | 4 | 832 | 0 | 4.8 | 1.30 | 0.90 | 0.20 | 0.10 | 32 | 13 | 32 |
| 154 | 2 | 4 | 838 | 0 | 5.8 | 1.35 | 1.40 | 0.30 | 0.15 | 32 | 13 | 13 |
| 155 | 2 | 4 | 843 | 0 | 4.4 | 1.10 | 0.75 | 0.15 | 0.05 | 31 | 11 | 31 |
| 156 | 3 | 1 | 1 | 0 | 6.1 | 0.85 | 2.40 | 0.55 | 0.25 | 34 | 11 | 34 |
| 157 | 3 | 1 | 7 | 0 | 6.8 | 0.95 | 2.05 | 0.60 | 0.30 | 36 | 7 | 36 |
| 158 | 3 | 1 | 13 | 0 | 7.5 | 0.85 | 2.90 | 0.80 | 0.35 | 38 | 7 | 38 |
| 159 | 3 | 1 | 18 | 0 | 8.3 | 1.40 | 1.65 | 0.55 | 0.20 | 39 | 6 | 39 |
| 160 | 3 | 1 | 24 | 0 | 5.8 | 0.80 | 1.80 | 0.70 | 0.30 | 31 | 3 | 31 |
| 161 | 3 | 1 | 29 | 0 | 5.9 | 0.90 | 1.65 | 0.75 | 0.35 | 28 | 5 | 28 |
| 162 | 3 | 1 | 36 | 0 | 4.4 | 0.50 | 1.20 | 0.55 | 0.25 | 23 | 5 | 23 |
| 163 | 3 | 1 | 41 | 0 | 4.4 | 0.55 | 1.60 | 0.85 | 0.35 | 21 | 4 | 21 |
| 164 | 3 | 1 | 46 | 0 | 4.9 | 0.50 | 1.90 | 0.45 | 0.20 | 30 | 5 | 30 |
| 165 | 3 | 1 | 52 | 0 | 3.6 | 0.30 | 1.00 | 0.45 | 0.20 | 22 | 5 | 22 |
| 166 | 3 | 1 | 58 | 0 | 9.3 | 1.30 | 2.80 | 0.60 | 0.30 | 34 | 4 | 34 |
| 167 | 3 | 1 | 63 | 0 | 4.7 | 0.95 | 1.20 | 0.60 | 0.25 | 25 | 4 | 25 |
| 168 | 3 | 1 | 69 | 0 | 4.7 | 0.70 | 1.25 | 0.45 | 0.20 | 28 | 5 | 28 |
| 169 | 3 | 2 | 70 | 0 | 4.3 | 1.10 | 0.75 | 1.10 | 0.55 | 21 | 4 | 21 |
| 170 | 3 | 2 | 75 | 0 | 3.2 | 0.30 | 1.20 | 0.90 | 0.45 | 18 | 1 | 18 |
| 171 | 3 | 2 | 80 | 0 | 5.0 | 0.90 | 1.50 | 0.90 | 0.35 | 26 | 3 | 26 |
| 172 | 3 | 2 | 85 | 0 | 6.1 | 0.65 | 2.00 | 0.90 | 0.40 | 26 | 4 | 26 |
| 173 | 3 | 2 | 90 | 0 | 3.7 | 0.40 | 1.40 | 0.70 | 0.40 | 28 | 4 | 28 |
| 174 | 3 | 2 | 95 | 0 | 4.3 | 1.50 | 0.55 | 0.90 | 0.40 | 22 | 4 | 22 |
| 175 | 3 | 2 | 101 | 0 | 8.4 | 1.15 | 2.30 | 0.85 | 0.35 | 37 | 7 | 37 |
| 176 | 3 | 2 | 107 | 0 | 7.3 | 2.25 | 1.10 | 0.60 | 0.25 | 32 | 5 | 32 |

| OBS | BLCK | PLOT | TAG | STA92 | DBH92 | HRT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRNHT92 | CRNTP92 |
|-----|------|------|-----|-------|-------|-------|-------|---------|---------|---------|---------|---------|
| 177 | 3 | 2 | 112 | 0 | 1.8 | 0.10 | 0.80 | 0.65 | 0.35 | 11 | 1 | 11 |
| 178 | 3 | 2 | 117 | 0 | 2.4 | 0.85 | 0.40 | 0.40 | 0.20 | 16 | 2 | 16 |
| 179 | 3 | 2 | 122 | 0 | 5.1 | 0.95 | 1.30 | 0.40 | 0.20 | 29 | 7 | 29 |
| 180 | 3 | 2 | 127 | 0 | 5.6 | 1.30 | 1.10 | 0.50 | 0.25 | 27 | 4 | 27 |
| 181 | 3 | 2 | 132 | 0 | 9.1 | 1.20 | 2.60 | 0.75 | 0.30 | 36 | 2 | 36 |
| 182 | 3 | 2 | 137 | 0 | 7.0 | 0.90 | 1.75 | 0.55 | 0.30 | 34 | 6 | 34 |
| 183 | 3 | 2 | 142 | 0 | 4.5 | 0.70 | 1.30 | 0.40 | 0.20 | 30 | 7 | 30 |
| 184 | 3 | 2 | 147 | 0 | 4.2 | 1.20 | 0.50 | 0.40 | 0.25 | 28 | 11 | 28 |
| 185 | 3 | 2 | 152 | 0 | 5.7 | 0.95 | 1.50 | 0.55 | 0.20 | 33 | 5 | 33 |
| 186 | 3 | 2 | 157 | 0 | 5.4 | 0.80 | 1.50 | 0.60 | 0.35 | 32 | 9 | 32 |
| 187 | 3 | 2 | 162 | 0 | 5.1 | 1.00 | 1.15 | 0.35 | 0.15 | 30 | 9 | 30 |
| 188 | 3 | 2 | 167 | 0 | 5.7 | 0.70 | 1.95 | 0.45 | 0.20 | 35 | 9 | 35 |
| 189 | 3 | 2 | 172 | 0 | 6.6 | 2.10 | 1.70 | 0.55 | 0.25 | 42 | 10 | 42 |
| 190 | 3 | 3 | 177 | 0 | 5.1 | 0.85 | 1.45 | 0.85 | 0.40 | 21 | 4 | 21 |
| 191 | 3 | 3 | 184 | 0 | 3.5 | 0.65 | 1.05 | 0.70 | 0.35 | 23 | 7 | 23 |
| 192 | 3 | 3 | 190 | 0 | 5.0 | 0.75 | 1.50 | 0.80 | 0.40 | 27 | 4 | 27 |
| 193 | 3 | 3 | 198 | 0 | 4.8 | 0.80 | 1.80 | 0.40 | 0.20 | 21 | 6 | 21 |
| 194 | 3 | 3 | 205 | 0 | 2.7 | 0.20 | 1.15 | 0.75 | 0.35 | 18 | 3 | 18 |
| 195 | 3 | 3 | 210 | 0 | 2.8 | 0.15 | 1.20 | 0.55 | 0.25 | 17 | 3 | 17 |
| 196 | 3 | 3 | 216 | 0 | 5.2 | 0.60 | 1.65 | 0.65 | 0.35 | 30 | 3 | 30 |
| 197 | 3 | 3 | 222 | 0 | 8.5 | 1.55 | 1.95 | 0.55 | 0.25 | 39 | 4 | 39 |
| 198 | 3 | 3 | 229 | 0 | 7.8 | 1.50 | 1.55 | 0.50 | 0.25 | 41 | 5 | 41 |
| 199 | 3 | 3 | 236 | 0 | 4.8 | 0.95 | 1.45 | 0.70 | 0.30 | 22 | 4 | 22 |
| 200 | 3 | 3 | 241 | 0 | 2.7 | 0.40 | 0.85 | 0.45 | 0.20 | 20 | 4 | 20 |
| 201 | 3 | 3 | 246 | 0 | 7.3 | 1.00 | 2.00 | 0.50 | 0.25 | 37 | 6 | 37 |
| 202 | 3 | 3 | 253 | 0 | 4.6 | 0.85 | 0.95 | 0.65 | 0.25 | 21 | 3 | 21 |
| 203 | 3 | 3 | 260 | 0 | 2.9 | 0.25 | 0.90 | 0.50 | 0.25 | 16 | 3 | 16 |
| 204 | 3 | 3 | 265 | 0 | 5.8 | 0.70 | 2.00 | 0.50 | 0.25 | 31 | 6 | 31 |
| 205 | 3 | 4 | 267 | 0 | 4.1 | 0.75 | 1.65 | 0.55 | 0.25 | 28 | 7 | 28 |
| 206 | 3 | 4 | 272 | 0 | 4.9 | 1.05 | 1.50 | 0.40 | 0.15 | 32 | 9 | 32 |
| 207 | 3 | 4 | 278 | 0 | 2.0 | 0.05 | 0.80 | 0.60 | 0.25 | 13 | 2 | 13 |
| 208 | 3 | 4 | 283 | 0 | 5.9 | 1.00 | 1.90 | 0.75 | 0.30 | 28 | 5 | 28 |
| 209 | 3 | 4 | 288 | 0 | 4.5 | 1.20 | 0.80 | 0.70 | 0.35 | 26 | 5 | 26 |
| 210 | 3 | 4 | 293 | 0 | 6.4 | 0.75 | 1.95 | 0.60 | 0.30 | 39 | 8 | 39 |
| 211 | 3 | 4 | 298 | 0 | 3.2 | 0.25 | 1.20 | 0.60 | 0.25 | 21 | 3 | 21 |
| 212 | 3 | 4 | 303 | 0 | 5.0 | 0.40 | 2.15 | 0.75 | 0.30 | 27 | 5 | 27 |
| 213 | 3 | 4 | 309 | 0 | 4.5 | 0.75 | 1.65 | 0.70 | 0.35 | 31 | 5 | 31 |
| 214 | 3 | 4 | 314 | 0 | 8.4 | 2.05 | 2.15 | 0.65 | 0.30 | 37 | 6 | 37 |
| 215 | 3 | 4 | 319 | 0 | 6.0 | 0.70 | 2.30 | 0.80 | 0.35 | 31 | 5 | 31 |
| 216 | 3 | 4 | 324 | 0 | 2.6 | 0.20 | 1.10 | 0.45 | 0.20 | 18 | 4 | 18 |
| 217 | 3 | 4 | 329 | 0 | 7.8 | 1.20 | 1.95 | 0.50 | 0.25 | 34 | 5 | 34 |
| 218 | 3 | 4 | 334 | 0 | 3.9 | 0.35 | 1.40 | 0.85 | 0.40 | 25 | 4 | 25 |
| 219 | 3 | 4 | 339 | 0 | 5.2 | 1.20 | 1.40 | 0.55 | 0.25 | 30 | 4 | 30 |
| 220 | 3 | 5 | 342 | 0 | 5.9 | 0.55 | 1.95 | 0.45 | 0.20 | 27 | 4 | 27 |

| OBS | BLCK | PLOT | TAG | STA92 | DBH92 | HRT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRNHT92 | CRNTP92 |
|-----|------|------|-----|-------|-------|-------|-------|---------|---------|---------|---------|---------|
| 221 | 3 | 5 | 347 | 0 | 4.5 | 0.60 | 1.20 | 0.50 | 0.25 | 26 | 4 | 26 |
| 222 | 3 | 5 | 352 | 0 | 2.4 | 0.10 | 1.05 | 0.65 | 0.30 | 17 | 3 | 17 |
| 223 | 3 | 5 | 357 | 0 | 5.1 | 0.55 | 1.65 | 0.70 | 0.30 | 22 | 3 | 22 |
| 224 | 3 | 5 | 362 | 0 | 4.3 | 0.55 | 1.20 | 0.70 | 0.30 | 22 | 3 | 22 |
| 225 | 3 | 5 | 367 | 0 | 6.3 | 0.70 | 2.90 | 0.55 | 0.25 | 21 | 2 | 21 |
| 226 | 3 | 5 | 372 | 0 | 4.5 | 0.40 | 1.70 | 0.65 | 0.30 | 25 | 3 | 25 |
| 227 | 3 | 5 | 377 | 0 | 1.6 | 0.05 | 0.65 | 0.65 | 0.30 | 9 | 1 | 9 |
| 228 | 3 | 5 | 382 | 0 | 1.8 | 0.15 | 0.70 | 0.50 | 0.25 | 14 | 2 | 14 |
| 229 | 3 | 5 | 387 | 0 | 4.2 | 0.60 | 1.35 | 0.60 | 0.30 | 21 | 2 | 21 |
| 230 | 3 | 5 | 392 | 0 | 4.0 | 0.70 | 1.15 | 0.50 | 0.25 | 24 | 5 | 24 |
| 231 | 3 | 5 | 397 | 0 | 3.0 | 1.20 | 0.65 | 0.80 | 0.45 | 24 | 2 | 24 |
| 232 | 3 | 5 | 402 | 0 | 6.5 | 0.75 | 2.20 | 0.70 | 0.35 | 31 | 6 | 31 |
| 233 | 3 | 5 | 407 | 0 | 2.0 | 0.05 | 1.00 | 0.50 | 0.25 | 19 | 6 | 19 |
| 234 | 3 | 5 | 412 | 0 | 4.1 | 1.10 | 0.75 | 0.45 | 0.25 | 21 | 3 | 21 |
| 235 | 3 | 5 | 417 | 0 | 2.4 | 0.25 | 0.70 | 0.45 | 0.20 | 19 | 6 | 19 |
| 236 | 3 | 5 | 422 | 0 | 3.4 | 0.50 | 1.30 | 0.75 | 0.35 | 21 | 5 | 21 |
| 237 | 3 | 5 | 427 | 0 | 2.6 | 0.25 | 0.90 | 0.60 | 0.30 | 18 | 3 | 18 |
| 238 | 3 | 5 | 432 | 0 | 3.2 | 0.30 | 1.10 | 0.60 | 0.30 | 24 | 4 | 24 |
| 239 | 4 | 1 | 434 | 0 | 6.2 | 0.80 | 2.45 | 0.85 | 0.35 | 27 | 4 | 27 |
| 240 | 4 | 1 | 439 | 0 | 4.0 | 0.65 | 1.15 | 0.50 | 0.25 | 27 | 6 | 27 |
| 241 | 4 | 1 | 444 | 0 | 4.9 | 0.70 | 1.40 | 0.50 | 0.20 | 29 | 9 | 29 |
| 242 | 4 | 1 | 449 | 0 | 4.0 | 0.40 | 1.00 | 0.30 | 0.15 | 30 | 6 | 30 |
| 243 | 4 | 1 | 454 | 0 | 2.3 | 0.35 | 0.70 | 0.25 | 0.10 | 26 | 10 | 26 |
| 244 | 4 | 1 | 459 | 0 | 5.4 | 0.65 | 1.40 | 0.55 | 0.25 | 22 | 2 | 22 |
| 245 | 4 | 1 | 460 | 2 | 4.7 | 1.00 | 0.95 | 0.70 | 0.30 | 27 | 4 | 27 |
| 246 | 4 | 1 | 465 | 0 | 4.2 | 0.65 | 1.50 | 0.55 | 0.25 | 28 | 9 | 28 |
| 247 | 4 | 1 | 470 | 0 | 6.4 | 0.80 | 2.10 | 0.75 | 0.30 | 22 | 2 | 22 |
| 248 | 4 | 1 | 475 | 0 | 3.6 | 0.40 | 1.20 | 0.45 | 0.25 | 27 | 12 | 27 |
| 249 | 4 | 1 | 480 | 0 | 4.3 | 0.40 | 1.65 | 0.70 | 0.30 | 26 | 4 | 26 |
| 250 | 4 | 1 | 485 | 0 | 3.0 | 0.55 | 0.70 | 0.25 | 0.10 | 27 | 10 | 27 |
| 251 | 4 | 1 | 490 | 0 | 4.8 | 0.80 | 1.30 | 0.75 | 0.35 | 20 | 1 | 20 |
| 252 | 4 | 1 | 495 | 0 | 2.6 | 0.35 | 0.70 | 0.35 | 0.15 | 20 | 6 | 20 |
| 253 | 4 | 1 | 500 | 0 | 5.0 | 0.70 | 1.30 | 0.55 | 0.25 | 26 | 3 | 26 |
| 254 | 4 | 1 | 506 | 0 | 3.9 | 0.25 | 1.60 | 1.00 | 0.50 | 23 | 3 | 23 |
| 255 | 4 | 1 | 511 | 0 | 6.3 | 0.75 | 2.40 | 0.80 | 0.30 | 25 | 2 | 25 |
| 256 | 4 | 1 | 516 | 0 | 2.1 | 0.20 | 0.75 | 0.55 | 0.25 | 15 | 2 | 15 |
| 257 | 4 | 1 | 524 | 0 | 3.1 | 0.15 | 1.20 | 0.45 | 0.25 | 26 | 6 | 26 |
| 258 | 4 | 1 | 529 | 0 | 3.5 | 0.25 | 1.25 | 0.55 | 0.30 | 27 | 6 | 27 |
| 259 | 4 | 1 | 534 | 0 | 4.6 | 0.25 | 1.70 | 0.90 | 0.40 | 19 | 3 | 19 |
| 260 | 4 | 2 | 537 | 0 | 4.5 | 0.55 | 1.35 | 0.45 | 0.20 | 24 | 5 | 24 |
| 261 | 4 | 2 | 546 | 0 | 3.6 | 0.40 | 1.15 | 0.60 | 0.25 | 21 | 2 | 21 |
| 262 | 4 | 2 | 554 | 0 | 4.8 | 0.80 | 1.25 | 0.80 | 0.35 | 27 | 4 | 27 |
| 263 | 4 | 2 | 561 | 1 | 1.9 | 0.05 | 0.90 | 0.60 | 0.30 | 17 | 2 | 9 |
| 264 | 4 | 2 | 563 | 0 | 4.3 | 0.55 | 1.35 | 0.85 | 0.35 | 21 | 2 | 21 |

| OBS | BLOCK | PLOT | TAG | STAT92 | DBH92 | HRT92 | SAP92 | RAD1092 | RAD5092 | STMLN92 | CRHT92 | CRNTP92 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 265 | 4 | 2 | 568 | 0 | 4.7 | 0.80 | 1.40 | 0.75 | 0.35 | 26 | 3 | 26 |
| 266 | 4 | 2 | 574 | 0 | 1.9 | 0.30 | 0.50 | 0.45 | 0.20 | 14 | 4 | 14 |
| 267 | 4 | 2 | 579 | 0 | 3.4 | 0.35 | 1.40 | 0.65 | 0.30 | 21 | 5 | 21 |
| 268 | 4 | 2 | 587 | 0 | 3.4 | 0.35 | 1.05 | 0.75 | 0.30 | 19 | 4 | 19 |
| 269 | 4 | 2 | 593 | 0 | 2.7 | 0.55 | 0.80 | 0.65 | 0.35 | 21 | 2 | 21 |
| 270 | 4 | 2 | 599 | 0 | 3.4 | 0.25 | 1.40 | 0.70 | 0.35 | 16 | 1 | 16 |
| 271 | 4 | 2 | 608 | 0 | 2.3 | 0.20 | 0.85 | 0.65 | 0.30 | 15 | 3 | 15 |
| 272 | 4 | 2 | 615 | 0 | 3.1 | 0.35 | 0.95 | 0.35 | 0.15 | 22 | 6 | 22 |
| 273 | 4 | 2 | 620 | 0 | 4.5 | 0.40 | 1.55 | 0.90 | 0.40 | 21 | 1 | 21 |
| 274 | 4 | 2 | 628 | 0 | 4.6 | 0.75 | 1.45 | 0.85 | 0.40 | 27 | 3 | 27 |
| 275 | 4 | 2 | 633 | 0 | 4.2 | 0.60 | 1.25 | 0.75 | 0.35 | 20 | 1 | 20 |
| 276 | 4 | 2 | 640 | 0 | 4.0 | 0.35 | 1.20 | 0.45 | 0.20 | 23 | 6 | 23 |
| 277 | 4 | 2 | 647 | 0 | 2.1 | 0.20 | 0.55 | 0.30 | 0.15 | 17 | 5 | 17 |
| 278 | 4 | 3 | 651 | 0 | 5.4 | 0.80 | 1.60 | 0.90 | 0.45 | 29 | 4 | 29 |
| 279 | 4 | 3 | 656 | 0 | 2.9 | 0.45 | 1.00 | 0.70 | 0.35 | 19 | 3 | 19 |
| 280 | 4 | 3 | 661 | 0 | 5.4 | 0.65 | 2.00 | 1.20 | 0.45 | 19 | 1 | 19 |
| 281 | 4 | 3 | 666 | 0 | 4.4 | 0.50 | 1.50 | 0.95 | 0.50 | 18 | 1 | 18 |
| 282 | 4 | 3 | 671 | 0 | 3.0 | 0.30 | 1.20 | 0.80 | 0.35 | 18 | 3 | 18 |
| 283 | 4 | 3 | 676 | 0 | 2.5 | 0.20 | 1.05 | 0.75 | 0.30 | 18 | 4 | 18 |
| 284 | 4 | 3 | 682 | 0 | 2.9 | 0.25 | 1.30 | 0.70 | 0.30 | 17 | 4 | 17 |
| 285 | 4 | 3 | 687 | 0 | 3.3 | 0.15 | 1.60 | 0.85 | 0.40 | 18 | 4 | 18 |
| 286 | 4 | 3 | 693 | 0 | 2.6 | 0.45 | 0.70 | 0.70 | 0.35 | 17 | 5 | 17 |
| 287 | 4 | 3 | 698 | 0 | 4.0 | 0.65 | 1.05 | 0.70 | 0.35 | 22 | 5 | 22 |
| 288 | 4 | 3 | 703 | 0 | 2.6 | 0.40 | 0.60 | 0.40 | 0.25 | 19 | 6 | 19 |
| 289 | 4 | 3 | 708 | 0 | 3.4 | 0.35 | 1.15 | 0.80 | 0.40 | 19 | 4 | 19 |
| 290 | 4 | 3 | 713 | 0 | 3.2 | 0.25 | 1.05 | 0.70 | 0.30 | 18 | 4 | 18 |
| 291 | 4 | 3 | 718 | 0 | 3.8 | 0.65 | 1.10 | 0.75 | 0.40 | 21 | 4 | 21 |
| 292 | 4 | 3 | 723 | 0 | 3.4 | 0.30 | 1.40 | 0.90 | 0.40 | 20 | 1 | 20 |
| 293 | 4 | 3 | 728 | 0 | 5.0 | 0.60 | 2.00 | 1.15 | 0.55 | 22 | 4 | 22 |
| 294 | 4 | 3 | 733 | 0 | 3.0 | 0.20 | 1.10 | 0.60 | 0.30 | 18 | 5 | 18 |
| 295 | 4 | 3 | 738 | 0 | 3.5 | 0.35 | 1.05 | 0.70 | 0.35 | 17 | 4 | 17 |
| 296 | 4 | 3 | 743 | 0 | 3.0 | 0.35 | 1.10 | 0.70 | 0.30 | 15 | 4 | 15 |
| 297 | 4 | 3 | 748 | 0 | 5.0 | 0.65 | 1.30 | 0.90 | 0.35 | 22 | 2 | 20 |
| 298 | 4 | 3 | 753 | 0 | 3.7 | 0.35 | 1.15 | 0.65 | 0.30 | 18 | 4 | 18 |
| 299 | 4 | 3 | 758 | 0 | 2.6 | 0.20 | 0.95 | 0.80 | 0.35 | 15 | 4 | 15 |
| 300 | 4 | 3 | 763 | 0 | 3.6 | 0.25 | 1.10 | 0.75 | 0.40 | 18 | 3 | 18 |
| 301 | 4 | 3 | 768 | 0 | 2.5 | 0.15 | 0.90 | 0.90 | 0.35 | 15 | 3 | 15 |
| 302 | 4 | 4 | 772 | 0 | 2.8 | 0.25 | 1.10 | 0.70 | 0.30 | 18 | 3 | 18 |
| 303 | 4 | 4 | 779 | 0 | 3.4 | 0.45 | 1.00 | 0.90 | 0.40 | 14 | 2 | 14 |
| 304 | 4 | 4 | 786 | 0 | 5.6 | 0.50 | 1.80 | 1.15 | 0.50 | 25 | 3 | 25 |
| 305 | 4 | 4 | 793 | 0 | 3.6 | 0.35 | 1.00 | 0.75 | 0.40 | 17 | 3 | 17 |
| 306 | 4 | 4 | 799 | 0 | 3.0 | 0.40 | 0.80 | 0.80 | 0.45 | 18 | 1 | 18 |
| 307 | 4 | 4 | 806 | 0 | 4.0 | 0.45 | 1.90 | 1.35 | 0.75 | 21 | 4 | 21 |
| 308 | 4 | 4 | 811 | 0 | 3.5 | 0.35 | 1.10 | 0.90 | 0.45 | 17 | 2 | 17 |

| OBS | BLOCK | PLOT | TAG | STAT92 | DBH92 | HRT92 | SAP92 | RAD1092 | RAD5092 | STMLN92 | CRHT92 | CRNTP92 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 309 | 4 | 4 | 817 | 0 | 4.8 | 0.80 | 1.65 | 1.15 | 0.50 | 21 | 2 | 21 |
| 310 | 4 | 4 | 825 | 0 | 4.2 | 0.60 | 1.70 | 0.95 | 0.35 | 20 | 1 | 20 |
| 311 | 4 | 4 | 835 | 0 | 6.0 | 0.70 | 2.40 | 1.25 | 0.50 | 29 | 1 | 29 |
| 312 | 4 | 4 | 842 | 0 | 3.3 | 0.15 | 1.25 | 0.60 | 0.25 | 18 | 1 | 18 |
| 313 | 4 | 4 | 850 | 0 | 5.1 | 0.20 | 2.05 | 1.00 | 0.40 | 20 | 2 | 20 |
| 314 | 4 | 4 | 856 | 0 | 3.1 | 0.50 | 0.85 | 0.60 | 0.25 | 20 | 4 | 20 |
| 315 | 4 | 4 | 862 | 0 | 3.7 | 0.45 | 1.20 | 0.85 | 0.40 | 18 | 3 | 18 |
| 316 | 4 | 4 | 867 | 0 | 2.9 | 0.50 | 0.95 | 0.75 | 0.35 | 18 | 4 | 18 |
| 317 | 4 | 4 | 874 | 0 | 2.9 | 0.50 | 0.95 | 0.95 | 0.50 | 16 | 3 | 16 |
| 318 | 4 | 4 | 879 | 0 | 4.0 | 0.40 | 1.25 | 0.85 | 0.45 | 20 | 1 | 20 |
| 319 | 4 | 5 | 884 | 0 | 4.7 | 0.90 | 1.65 | 1.20 | 0.60 | 22 | 2 | 22 |
| 320 | 4 | 5 | 889 | 0 | 3.6 | 0.25 | 1.35 | 0.80 | 0.40 | 20 | 1 | 20 |
| 321 | 4 | 5 | 894 | 0 | 2.2 | 0.30 | 0.80 | 0.70 | 0.40 | 14 | 3 | 14 |
| 322 | 4 | 5 | 899 | 0 | 3.3 | 0.70 | 0.70 | 0.90 | 0.45 | 16 | 3 | 16 |
| 323 | 4 | 5 | 904 | 0 | 2.8 | 0.30 | 1.00 | 0.75 | 0.35 | 16 | 4 | 16 |
| 324 | 4 | 5 | 909 | 0 | 3.9 | 0.40 | 1.45 | 0.90 | 0.40 | 19 | 1 | 19 |
| 325 | 4 | 5 | 914 | 0 | 4.0 | 0.40 | 1.55 | 0.90 | 0.40 | 18 | 1 | 18 |
| 326 | 4 | 5 | 919 | 0 | 2.8 | 0.25 | 1.25 | 0.80 | 0.35 | 14 | 1 | 14 |
| 327 | 4 | 5 | 924 | 0 | 2.3 | 0.20 | 0.75 | 0.70 | 0.20 | 13 | 1 | 13 |
| 328 | 4 | 5 | 929 | 0 | 2.0 | 0.15 | 0.75 | 0.60 | 0.25 | 14 | 4 | 14 |
| 329 | 4 | 5 | 934 | 0 | 3.1 | 0.35 | 1.15 | 0.95 | 0.35 | 22 | 4 | 22 |
| 330 | 4 | 5 | 939 | 0 | 4.3 | 0.35 | 1.35 | 0.80 | 0.30 | 18 | 1 | 18 |
| 331 | 4 | 5 | 944 | 0 | 4.1 | 0.15 | 1.40 | 1.00 | 0.50 | 16 | 1 | 16 |
| 332 | 4 | 5 | 949 | 0 | 3.8 | 0.15 | 1.55 | 0.95 | 0.35 | 17 | 2 | 17 |
| 333 | 4 | 5 | 954 | 0 | 2.8 | 0.30 | 1.00 | 0.70 | 0.35 | 14 | 4 | 14 |
| 334 | 4 | 5 | 959 | 0 | 2.3 | 0.20 | 0.85 | 0.60 | 0.30 | 11 | 3 | 11 |
| 335 | 4 | 5 | 964 | 0 | 2.0 | 0.20 | 0.55 | 0.60 | 0.30 | 9 | 1 | 9 |
| 336 | 4 | 5 | 969 | 0 | 3.5 | 0.45 | 1.05 | 1.00 | 0.50 | 15 | 1 | 15 |
| 337 | 4 | 5 | 974 | 0 | 2.4 | 0.20 | 0.80 | 0.70 | 0.30 | 13 | 3 | 13 |
| 338 | 4 | 5 | 979 | 0 | 2.3 | 0.20 | 1.20 | 0.85 | 0.40 | 13 | 4 | 13 |
| 339 | 4 | 5 | 984 | 0 | 2.2 | 0.10 | 1.15 | 0.65 | 0.35 | 14 | 2 | 14 |
| 340 | 4 | 5 | 989 | 0 | 2.4 | 0.15 | 0.95 | 0.80 | 0.35 | 11 | 1 | 11 |
| 341 | 4 | 5 | 994 | 0 | 1.8 | 0.10 | 0.70 | 0.80 | 0.25 | 10 | 1 | 10 |

Listing of Ident (1990) + Observed (1991-97)                77
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | STT93 | DBH93 | HRT93 | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRHT93 | CRNTP93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 2 | 0 | 7.1 | 1.90 | 1.25 | 0.10 | 0.05 | 40 | 13 | 40 |
| 2 | 1 | 1 | 10 | 0 | 6.5 | 2.05 | 1.10 | 0.10 | 0.05 | 38 | 14 | 38 |
| 3 | 1 | 1 | 19 | 0 | 8.7 | 1.75 | 2.25 | 0.15 | 0.10 | 44 | 12 | 44 |
| 4 | 1 | 1 | 25 | 0 | 9.6 | 2.95 | 1.85 | 0.30 | 0.15 | 49 | 18 | 49 |
| 5 | 1 | 1 | 32 | 0 | 7.8 | 1.80 | 2.25 | 0.25 | 0.15 | 41 | 22 | 41 |
| 6 | 1 | 1 | 40 | 0 | 6.7 | 1.90 | 1.55 | 0.10 | 0.05 | 37 | 22 | 37 |
| 7 | 1 | 1 | 45 | 0 | 6.7 | 1.75 | 1.45 | 0.15 | 0.05 | 38 | 19 | 32 |
| 8 | 1 | 1 | 52 | 0 | 7.5 | 1.60 | 2.10 | 0.30 | 0.15 | 37 | 16 | 37 |
| 9 | 1 | 1 | 59 | 0 | 9.0 | 3.50 | 1.70 | 0.25 | 0.10 | 42 | 19 | 42 |
| 10 | 1 | 1 | 65 | 0 | 5.5 | 1.50 | 0.95 | 0.20 | 0.10 | 39 | 14 | 39 |
| 11 | 1 | 2 | 73 | 2 | 8.9 | 2.35 | 1.60 | 0.15 | 0.05 | 41 | 19 | 41 |
| 12 | 1 | 2 | 75 | 0 | 7.7 | 1.70 | 1.20 | 0.10 | 0.05 | 42 | 24 | 42 |
| 13 | 1 | 2 | 82 | 0 | 8.9 | 1.95 | 0.75 | 0.15 | 0.05 | 46 | 23 | 46 |
| 14 | 1 | 2 | 90 | 0 | 6.6 | 1.45 | 1.35 | 0.20 | 0.10 | 38 | 10 | 38 |
| 15 | 1 | 2 | 94 | 2 | 6.4 | 1.50 | 0.90 | 0.10 | 0.05 | 40 | 22 | 40 |
| 16 | 1 | 2 | 99 | 0 | 7.9 | 1.65 | 1.15 | 0.20 | 0.10 | 40 | 13 | 40 |
| 17 | 1 | 2 | 107 | 0 | 7.2 | 1.25 | 1.55 | 0.20 | 0.10 | 44 | 21 | 44 |
| 18 | 1 | 2 | 110 | 2 | 7.8 | 2.00 | 1.50 | 0.20 | 0.10 | 43 | 21 | 43 |
| 19 | 1 | 2 | 118 | 0 | 6.4 | 1.75 | 1.95 | 0.30 | 0.15 | 36 | 14 | 36 |
| 20 | 1 | 2 | 128 | 0 | 6.4 | 1.40 | 1.20 | 0.30 | 0.15 | 37 | 8 | 37 |
| 21 | 1 | 2 | 137 | 0 | 7.7 | 1.25 | 1.65 | 0.30 | 0.15 | 47 | 17 | 47 |
| 22 | 1 | 2 | 147 | 0 | 7.0 | 1.70 | 1.50 | 0.15 | 0.05 | 41 | 8 | 40 |
| 23 | 1 | 2 | 155 | 0 | 8.1 | 1.65 | 1.50 | 0.30 | 0.15 | 42 | 11 | 42 |
| 24 | 1 | 3 | 164 | 0 | 7.1 | 1.75 | 1.00 | 0.20 | 0.10 | 38 | 16 | 38 |
| 25 | 1 | 3 | 171 | 0 | 5.2 | 1.10 | 0.80 | 0.15 | 0.10 | 32 | 15 | 32 |
| 26 | 1 | 3 | 176 | 0 | 5.2 | 1.10 | 0.95 | 0.20 | 0.10 | 30 | 16 | 30 |
| 27 | 1 | 3 | 182 | 0 | 6.6 | 1.50 | 1.50 | 0.25 | 0.10 | 36 | 9 | 36 |
| 28 | 1 | 3 | 188 | 0 | 5.9 | 1.25 | 1.45 | 0.20 | 0.10 | 41 | 20 | 41 |
| 29 | 1 | 3 | 195 | 0 | 4.2 | 1.15 | 0.75 | 0.10 | 0.05 | 32 | 17 | 32 |
| 30 | 1 | 3 | 201 | 0 | 7.5 | 1.55 | 1.75 | 0.25 | 0.10 | 41 | 22 | 41 |
| 31 | 1 | 3 | 209 | 0 | 6.1 | 1.30 | 1.35 | 0.20 | 0.10 | 38 | 20 | 38 |
| 32 | 1 | 3 | 210 | 1 | 6.2 | 1.90 | 0.95 | 0.25 | 0.10 | 40 | 17 | 40 |
| 33 | 1 | 3 | 216 | 0 | 5.4 | 1.35 | 1.20 | 0.20 | 0.10 | 35 | 19 | 35 |
| 34 | 1 | 3 | 221 | 0 | 6.6 | 1.95 | 1.25 | 0.25 | 0.10 | 38 | 18 | 38 |
| 35 | 1 | 3 | 226 | 0 | 6.4 | 1.65 | 1.00 | 0.20 | 0.10 | 39 | 17 | 39 |
| 36 | 1 | 3 | 231 | 0 | 4.1 | 0.90 | 0.70 | 0.15 | 0.05 | 32 | 14 | 32 |
| 37 | 1 | 4 | 237 | 0 | 6.4 | 1.35 | 1.45 | 0.10 | 0.05 | 38 | 19 | 38 |
| 38 | 1 | 4 | 242 | 0 | 7.7 | 1.80 | 1.40 | 0.20 | 0.10 | 42 | 20 | 42 |
| 39 | 1 | 4 | 248 | 0 | 7.5 | 1.35 | 1.90 | 0.30 | 0.15 | 45 | 20 | 45 |
| 40 | 1 | 4 | 254 | 0 | 6.9 | 2.40 | 2.30 | 0.15 | 0.05 | 41 | 28 | 41 |
| 41 | 1 | 4 | 259 | 0 | 5.0 | 1.25 | 0.65 | 0.15 | 0.05 | 36 | 22 | 36 |
| 42 | 1 | 4 | 264 | 2 | 7.9 | 2.00 | 1.50 | 0.25 | 0.10 | 42 | 24 | 42 |
| 43 | 1 | 4 | 265 | 0 | 5.7 | 1.05 | 1.20 | 0.15 | 0.05 | 39 | 18 | 39 |
| 44 | 1 | 4 | 266 | 2 | 6.6 | 1.55 | 1.85 | 0.15 | 0.05 | 40 | 19 | 40 |

Listing of Ident (1990) + Observed (1991-97)                78
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | STT93 | DBH93 | HRT93 | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRHT93 | CRNTP93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 1 | 4 | 273 | 0 | 8.4 | 1.75 | 1.40 | 0.20 | 0.10 | 45 | 25 | 45 |
| 46 | 1 | 4 | 278 | 0 | 7.3 | 1.60 | 1.40 | 0.15 | 0.05 | 42 | 21 | 42 |
| 47 | 1 | 4 | 279 | 1 | 9.0 | 3.35 | 0.55 | 0.20 | 0.10 | 42 | 21 | 42 |
| 48 | 1 | 4 | 284 | 0 | 8.7 | 2.20 | 1.70 | 0.20 | 0.10 | 44 | 22 | 44 |
| 49 | 1 | 4 | 285 | 2 | 5.4 | 1.15 | 1.00 | 0.30 | 0.15 | 38 | 19 | 38 |
| 50 | 1 | 4 | 290 | 0 | 7.7 | 1.80 | 1.35 | 0.25 | 0.10 | 44 | 27 | 44 |
| 51 | 1 | 4 | 295 | 0 | 7.3 | 1.80 | 1.40 | 0.20 | 0.10 | 44 | 23 | 44 |
| 52 | 1 | 4 | 301 | 0 | 8.6 | 1.60 | 2.00 | 0.30 | 0.15 | 48 | 26 | 48 |
| 53 | 1 | 4 | 306 | 0 | 7.2 | 2.55 | 1.10 | 0.30 | 0.10 | 41 | 22 | 41 |
| 54 | 1 | 4 | 308 | 2 | 9.3 | 2.40 | 1.50 | 0.45 | 0.20 | 48 | 29 | 48 |
| 55 | 1 | 4 | 314 | 0 | 8.0 | 1.65 | 2.00 | 0.35 | 0.15 | 47 | 22 | 47 |
| 56 | 1 | 4 | 319 | 0 | 7.3 | 1.55 | 1.40 | 0.25 | 0.10 | 36 | 18 | 36 |
| 57 | 1 | 4 | 324 | 0 | 5.7 | 1.30 | 1.25 | 0.35 | 0.20 | 40 | 22 | 40 |
| 58 | 2 | 1 | 328 | 0 | 8.2 | 2.65 | 0.90 | 0.20 | 0.10 | 43 | 14 | 43 |
| 59 | 2 | 1 | 332 | 2 | 4.8 | 1.45 | 0.85 | 0.10 | 0.05 | 30 | 15 | 30 |
| 60 | 2 | 1 | 344 | 0 | 4.6 | 1.15 | 0.70 | 0.10 | 0.05 | 29 | 19 | 29 |
| 61 | 2 | 1 | 356 | 0 | 3.4 | 0.95 | 0.60 | 0.10 | 0.05 | 29 | 20 | 29 |
| 62 | 2 | 1 | 366 | 0 | 8.2 | 2.05 | 1.50 | 0.25 | 0.10 | 38 | 6 | 38 |
| 63 | 2 | 1 | 373 | 0 | 6.5 | 1.90 | 0.75 | 0.10 | 0.05 | 33 | 11 | 33 |
| 64 | 2 | 1 | 381 | 0 | 4.3 | 0.90 | 0.85 | 0.15 | 0.05 | 33 | 7 | 33 |
| 65 | 2 | 1 | 391 | 0 | 5.7 | 1.20 | 0.95 | 0.15 | 0.05 | 40 | 13 | 40 |
| 66 | 2 | 1 | 399 | 2 | 3.6 | 0.65 | 0.70 | 0.10 | 0.05 | 28 | 17 | 28 |
| 67 | 2 | 1 | 400 | 0 | 5.6 | 1.30 | 0.90 | 0.15 | 0.05 | 33 | 15 | 33 |
| 68 | 2 | 1 | 401 | 2 | 6.3 | 1.65 | 0.90 | 0.20 | 0.10 | 35 | 19 | 35 |
| 69 | 2 | 1 | 411 | 0 | 8.4 | 2.55 | 1.15 | 0.20 | 0.10 | 39 | 14 | 39 |
| 70 | 2 | 1 | 422 | 0 | 6.1 | 1.45 | 1.25 | 0.20 | 0.10 | 39 | 13 | 39 |
| 71 | 2 | 1 | 430 | 0 | 6.5 | 1.70 | 1.15 | 0.20 | 0.10 | 41 | 15 | 41 |
| 72 | 2 | 1 | 431 | 2 | 3.6 | 0.85 | 0.70 | 0.15 | 0.10 | 29 | 16 | 29 |
| 73 | 2 | 1 | 440 | 0 | 6.4 | 1.70 | 1.05 | 0.20 | 0.10 | 30 | 8 | 30 |
| 74 | 2 | 1 | 444 | 2 | 5.3 | 1.30 | 0.90 | 0.10 | 0.05 | 33 | 16 | 33 |
| 75 | 2 | 1 | 450 | 0 | 5.4 | 1.30 | 1.30 | 0.30 | 0.15 | 34 | 16 | 34 |
| 76 | 2 | 1 | 457 | 0 | 7.1 | 1.60 | 1.75 | 0.40 | 0.25 | 40 | 4 | 40 |
| 77 | 2 | 1 | 465 | 0 | 8.2 | 2.10 | 1.85 | 0.40 | 0.20 | 42 | 16 | 42 |
| 78 | 2 | 2 | 476 | 0 | 5.3 | 1.55 | 1.30 | 0.15 | 0.05 | 34 | 11 | 34 |
| 79 | 2 | 2 | 482 | 0 | 3.7 | 0.90 | 0.70 | 0.10 | 0.05 | 29 | 14 | 29 |
| 80 | 2 | 2 | 489 | 0 | 6.8 | 2.15 | 1.50 | 0.30 | 0.10 | 38 | 9 | 38 |
| 81 | 2 | 2 | 494 | 0 | 6.5 | 1.60 | 1.60 | 0.30 | 0.15 | 48 | 15 | 48 |
| 82 | 2 | 2 | 500 | 0 | 4.2 | 1.50 | 0.70 | 0.20 | 0.10 | 32 | 15 | 32 |
| 83 | 2 | 2 | 509 | 0 | 5.5 | 1.40 | 1.05 | 0.20 | 0.10 | 34 | 20 | 34 |
| 84 | 2 | 2 | 514 | 2 | 5.9 | 1.35 | 1.05 | 0.10 | 0.05 | 31 | 8 | 31 |
| 85 | 2 | 2 | 516 | 0 | 3.0 | 0.80 | 0.55 | 0.10 | 0.05 | 24 | 5 | 24 |
| 86 | 2 | 2 | 523 | 0 | 4.8 | 1.30 | 0.90 | 0.15 | 0.05 | 40 | 25 | 40 |
| 87 | 2 | 2 | 529 | 2 | 2.8 | 0.60 | 0.80 | 0.10 | 0.05 | 26 | 11 | 26 |
| 88 | 2 | 2 | 530 | 0 | 6.4 | 2.15 | 1.00 | 0.15 | 0.05 | 36 | 16 | 36 |

| OBS | BLOCK | PLOT | TAG | STAT93 | DBH93 | HRT93 | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRNHT93 | CRNTP93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 2 | 2 | 531 | 2 | 3.0 | 0.75 | 0.60 | 0.10 | 0.050 | 29 | 15 | 29 |
| 90 | 2 | 2 | 534 | 2 | 4.1 | 1.25 | 0.75 | 0.15 | 0.100 | 33 | 15 | 33 |
| 91 | 2 | 2 | 540 | 2 | 5.3 | 1.20 | 0.65 | 0.10 | 0.050 | 30 | 15 | 30 |
| 92 | 2 | 2 | 541 | 0 | 6.2 | 1.60 | 0.85 | 0.10 | 0.050 | 37 | 6 | 37 |
| 93 | 2 | 2 | 546 | 2 | 5.7 | 2.00 | 0.65 | 0.15 | 0.050 | 40 | 22 | 40 |
| 94 | 2 | 2 | 549 | 0 | 5.8 | 0.85 | 1.75 | 0.10 | 0.050 | 33 | 16 | 33 |
| 95 | 2 | 2 | 559 | 0 | 8.1 | 1.90 | 1.40 | 0.10 | 0.050 | 45 | 17 | 45 |
| 96 | 2 | 2 | 566 | 0 | 6.3 | 1.50 | 1.10 | 0.20 | 0.100 | 37 | 17 | 37 |
| 97 | 2 | 2 | 567 | 2 | 5.8 | 1.45 | 1.20 | 0.20 | 0.100 | 37 | 18 | 37 |
| 98 | 2 | 2 | 568 | 2 | 5.7 | 1.80 | 0.95 | 0.10 | 0.050 | 36 | 18 | 36 |
| 99 | 2 | 2 | 574 | 0 | 3.7 | 1.10 | 0.45 | 0.05 | 0.025 | 29 | 19 | 29 |
| 100 | 2 | 2 | 580 | 2 | 5.4 | 2.05 | 0.60 | 0.25 | 0.100 | 32 | 13 | 32 |
| 101 | 2 | 2 | 582 | 0 | 3.5 | 1.20 | 0.50 | 0.10 | 0.050 | 30 | 14 | 30 |
| 102 | 2 | 2 | 588 | 0 | 6.0 | 1.00 | 1.40 | 0.25 | 0.150 | 37 | 11 | 37 |
| 103 | 2 | 2 | 593 | 2 | 5.6 | 2.00 | 0.70 | 0.10 | 0.050 | 36 | 12 | 36 |
| 104 | 2 | 2 | 597 | 0 | 7.3 | 2.20 | 0.70 | 0.10 | 0.050 | 36 | 3 | 36 |
| 105 | 2 | 2 | 606 | 0 | 4.7 | 1.00 | 0.95 | 0.15 | 0.050 | 36 | 20 | 36 |
| 106 | 2 | 2 | 612 | 2 | 5.7 | 1.90 | 0.90 | 0.10 | 0.050 | 40 | 17 | 40 |
| 107 | 2 | 2 | 617 | 0 | 3.4 | 0.95 | 0.60 | 0.05 | 0.025 | 29 | 17 | 29 |
| 108 | 2 | 3 | 625 | 0 | 7.1 | 1.90 | 1.20 | 0.15 | 0.050 | 36 | 18 | 36 |
| 109 | 2 | 3 | 633 | 0 | 7.6 | 1.80 | 1.45 | 0.25 | 0.100 | 36 | 7 | 36 |
| 110 | 2 | 3 | 639 | 0 | 8.4 | 2.30 | 1.05 | 0.15 | 0.050 | 47 | 20 | 47 |
| 111 | 2 | 3 | 647 | 0 | 5.8 | 1.60 | 1.05 | 0.20 | 0.100 | 32 | 8 | 32 |
| 112 | 2 | 3 | 653 | 0 | 5.3 | 1.40 | 0.60 | 0.10 | 0.050 | 35 | 12 | 35 |
| 113 | 2 | 3 | 658 | 0 | 7.1 | 1.50 | 1.15 | 0.20 | 0.100 | 40 | 15 | 40 |
| 114 | 2 | 3 | 663 | 0 | 5.7 | 1.60 | 1.05 | 0.20 | 0.100 | 37 | 21 | 37 |
| 115 | 2 | 3 | 669 | 0 | 5.7 | 1.60 | 0.65 | 0.10 | 0.050 | 39 | 21 | 39 |
| 116 | 2 | 3 | 674 | 0 | 7.2 | 1.80 | 1.60 | 0.40 | 0.200 | 40 | 18 | 40 |
| 117 | 2 | 3 | 696 | 0 | 5.5 | 1.50 | 1.00 | 0.10 | 0.050 | 38 | 12 | 38 |
| 118 | 2 | 3 | 703 | 0 | 7.0 | 1.40 | 1.55 | 0.25 | 0.100 | 36 | 12 | 36 |
| 119 | 2 | 3 | 714 | 0 | 6.4 | 1.50 | 1.30 | 0.15 | 0.050 | 38 | 20 | 38 |
| 120 | 2 | 3 | 719 | 0 | 6.2 | 1.65 | 0.85 | 0.20 | 0.100 | 36 | 21 | 36 |
| 121 | 2 | 3 | 727 | 0 | 5.1 | 1.90 | 0.40 | 0.10 | 0.050 | 34 | 20 | 34 |
| 122 | 2 | 3 | 737 | 0 | 6.4 | 1.30 | 1.25 | 0.10 | 0.050 | 35 | 19 | 35 |
| 123 | 2 | 4 | 742 | 0 | 3.6 | 0.80 | 0.65 | 0.15 | 0.050 | 29 | 16 | 29 |
| 124 | 2 | 4 | 748 | 2 | 7.7 | 2.15 | 1.05 | 0.20 | 0.100 | 40 | 23 | 40 |
| 125 | 2 | 4 | 749 | 0 | 4.8 | 0.95 | 0.80 | 0.10 | 0.050 | 32 | 19 | 32 |
| 126 | 2 | 4 | 757 | 0 | 5.8 | 0.50 | 1.85 | 0.15 | 0.050 | 35 | 14 | 35 |
| 127 | 2 | 4 | 766 | 0 | 5.1 | 1.20 | 1.20 | 0.15 | 0.050 | 35 | 20 | 35 |
| 128 | 2 | 4 | 771 | 0 | 4.9 | 1.10 | 0.95 | 0.20 | 0.100 | 36 | 24 | 36 |
| 129 | 2 | 4 | 776 | 0 | 4.5 | 0.90 | 1.00 | 0.20 | 0.100 | 31 | 14 | 31 |
| 130 | 2 | 4 | 786 | 0 | 4.7 | 1.20 | 1.10 | 0.15 | 0.050 | 32 | 13 | 32 |
| 131 | 2 | 4 | 792 | 0 | 6.4 | 1.70 | 1.15 | 0.20 | 0.100 | 37 | 11 | 37 |
| 132 | 2 | 4 | 797 | 0 | 5.6 | 1.05 | 0.80 | 0.15 | 0.050 | 35 | 20 | 35 |
| 133 | 2 | 4 | 806 | 0 | 4.5 | 1.00 | 0.80 | 0.15 | 0.05 | 31 | 17 | 31 |
| 134 | 2 | 4 | 816 | 0 | 4.5 | 1.20 | 0.90 | 0.10 | 0.05 | 31 | 6 | 31 |
| 135 | 2 | 4 | 824 | 0 | 5.2 | 1.35 | 1.30 | 0.15 | 0.05 | 33 | 16 | 33 |
| 136 | 2 | 4 | 829 | 0 | 5.8 | 1.15 | 1.15 | 0.20 | 0.10 | 36 | 14 | 36 |
| 137 | 2 | 4 | 834 | 0 | 5.1 | 1.40 | 1.35 | 0.35 | 0.20 | 35 | 19 | 35 |
| 138 | 2 | 4 | 840 | 0 | 4.5 | 1.00 | 0.65 | 0.15 | 0.05 | 29 | 18 | 29 |
| 139 | 2 | 4 | 846 | 0 | 4.9 | 0.90 | 0.90 | 0.10 | 0.05 | 34 | 19 | 34 |
| 140 | 3 | 1 | 3 | 0 | 6.5 | 1.25 | 1.75 | 0.25 | 0.15 | 36 | 8 | 36 |
| 141 | 3 | 1 | 8 | 0 | 4.3 | 0.85 | 1.00 | 0.25 | 0.20 | 26 | 6 | 26 |
| 142 | 3 | 1 | 14 | 0 | 8.4 | 0.85 | 2.90 | 0.60 | 0.30 | 31 | 3 | 31 |
| 143 | 3 | 1 | 20 | 0 | 7.1 | 1.15 | 1.10 | 0.25 | 0.15 | 33 | 5 | 33 |
| 144 | 3 | 1 | 25 | 0 | 5.4 | 0.45 | 1.50 | 0.55 | 0.25 | 26 | 4 | 26 |
| 145 | 3 | 1 | 30 | 0 | 2.6 | 0.00 | 1.05 | 0.35 | 0.25 | 15 | 2 | 15 |
| 146 | 3 | 1 | 37 | 0 | 3.1 | 0.55 | 0.90 | 0.55 | 0.20 | 20 | 3 | 20 |
| 147 | 3 | 1 | 42 | 0 | 4.1 | 0.30 | 1.85 | 0.55 | 0.30 | 20 | 5 | 20 |
| 148 | 3 | 1 | 47 | 0 | 1.9 | 0.25 | 0.70 | 0.60 | 0.30 | 12 | 3 | 12 |
| 149 | 3 | 1 | 53 | 0 | 3.4 | 0.55 | 0.85 | 0.60 | 0.30 | 22 | 3 | 22 |
| 150 | 3 | 1 | 59 | 0 | 5.0 | 0.55 | 1.25 | 0.30 | 0.10 | 25 | 6 | 25 |
| 151 | 3 | 1 | 65 | 0 | 3.4 | 0.15 | 1.25 | 0.55 | 0.30 | 15 | 4 | 15 |
| 152 | 3 | 2 | 71 | 0 | 2.7 | 0.55 | 0.65 | 0.75 | 0.35 | 15 | 2 | 15 |
| 153 | 3 | 2 | 76 | 0 | 5.9 | 1.65 | 0.65 | 0.75 | 0.35 | 24 | 3 | 24 |
| 154 | 3 | 2 | 81 | 0 | 2.8 | 0.00 | 1.20 | 0.80 | 0.40 | 14 | 1 | 14 |
| 155 | 3 | 2 | 86 | 0 | 7.6 | 1.30 | 2.20 | 0.70 | 0.30 | 37 | 8 | 37 |
| 156 | 3 | 2 | 91 | 0 | 7.6 | 0.65 | 2.45 | 0.65 | 0.30 | 37 | 6 | 37 |
| 157 | 3 | 2 | 96 | 0 | 8.6 | 1.90 | 2.55 | 0.80 | 0.35 | 31 | 6 | 31 |
| 158 | 3 | 2 | 103 | 0 | 9.4 | 1.60 | 2.40 | 0.60 | 0.25 | 37 | 3 | 37 |
| 159 | 3 | 2 | 108 | 0 | 8.8 | 1.60 | 2.30 | 0.75 | 0.35 | 40 | 9 | 40 |
| 160 | 3 | 2 | 113 | 0 | 7.0 | 0.60 | 1.95 | 0.70 | 0.30 | 32 | 2 | 32 |
| 161 | 3 | 2 | 118 | 0 | 8.5 | 1.65 | 2.30 | 0.60 | 0.25 | 37 | 5 | 37 |
| 162 | 3 | 2 | 123 | 0 | 6.8 | 1.20 | 1.55 | 0.50 | 0.20 | 34 | 5 | 34 |
| 163 | 3 | 2 | 128 | 0 | 3.4 | 0.40 | 0.95 | 0.35 | 0.15 | 26 | 11 | 26 |
| 164 | 3 | 2 | 133 | 0 | 7.9 | 1.90 | 1.50 | 0.45 | 0.20 | 33 | 4 | 33 |
| 165 | 3 | 2 | 138 | 0 | 4.0 | 0.45 | 1.25 | 0.35 | 0.15 | 25 | 3 | 25 |
| 166 | 3 | 2 | 143 | 0 | 5.9 | 1.50 | 0.85 | 0.40 | 0.15 | 34 | 6 | 34 |
| 167 | 3 | 2 | 148 | 0 | 5.5 | 1.05 | 1.25 | 0.45 | 0.15 | 31 | 5 | 31 |
| 168 | 3 | 2 | 153 | 0 | 2.9 | 0.45 | 1.00 | 0.45 | 0.20 | 24 | 6 | 24 |
| 169 | 3 | 2 | 158 | 0 | 7.3 | 1.35 | 2.15 | 0.55 | 0.25 | 33 | 8 | 33 |
| 170 | 3 | 2 | 163 | 0 | 2.6 | 0.00 | 1.05 | 0.40 | 0.15 | 18 | 4 | 18 |
| 171 | 3 | 2 | 168 | 0 | 7.6 | 0.65 | 2.00 | 0.35 | 0.15 | 36 | 6 | 36 |
| 172 | 3 | 2 | 173 | 0 | 7.1 | 1.10 | 1.75 | 0.35 | 0.15 | 39 | 7 | 39 |
| 173 | 3 | 3 | 180 | 0 | 5.2 | 0.65 | 1.75 | 0.80 | 0.25 | 24 | 3 | 24 |
| 174 | 3 | 3 | 186 | 0 | 2.9 | 0.30 | 0.90 | 0.40 | 0.20 | 20 | 3 | 20 |
| 175 | 3 | 3 | 193 | 0 | 5.7 | 1.35 | 1.40 | 0.30 | 0.10 | 29 | 7 | 29 |
| 176 | 3 | 3 | 200 | 0 | 3.1 | 0.30 | 1.00 | 0.65 | 0.25 | 19 | 3 | 19 |

Listing of  Ident (1990) + Observed (1991-97)          81
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | STAT93 | DBH93 | HRT93 | SAP93 | RADlO93 | RADO593 | STMLN93 | CRNHT93 | CRNTP93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 177 | 3 | 3 | 206 | 0 | 5.2 | 0.65 | 1.50 | 0.75 | 0.30 | 27 | 2 | 27 |
| 178 | 3 | 3 | 211 | 0 | 5.0 | 0.80 | 1.45 | 0.55 | 0.25 | 22 | 3 | 22 |
| 179 | 3 | 3 | 217 | 0 | 3.3 | 0.35 | 1.00 | 0.65 | 0.25 | 17 | 2 | 17 |
| 180 | 3 | 3 | 223 | 0 | 7.1 | 1.10 | 1.90 | 0.45 | 0.20 | 43 | 16 | 43 |
| 181 | 3 | 3 | 232 | 0 | 3.4 | 0.45 | 1.00 | 0.55 | 0.25 | 21 | 4 | 21 |
| 182 | 3 | 3 | 237 | 0 | 4.9 | 1.15 | 0.95 | 0.40 | 0.20 | 27 | 4 | 27 |
| 183 | 3 | 3 | 242 | 0 | 3.9 | 0.80 | 0.95 | 0.45 | 0.20 | 23 | 7 | 23 |
| 184 | 3 | 3 | 247 | 0 | 6.3 | 0.90 | 1.75 | 0.40 | 0.20 | 36 | 5 | 36 |
| 185 | 3 | 3 | 254 | 0 | 3.3 | 0.45 | 0.95 | 0.65 | 0.30 | 20 | 3 | 20 |
| 186 | 3 | 3 | 261 | 0 | 5.2 | 0.65 | 1.40 | 0.55 | 0.30 | 25 | 7 | 25 |
| 187 | 3 | 3 | 266 | 0 | 8.1 | 0.85 | 2.35 | 0.45 | 0.15 | 34 | 7 | 34 |
| 188 | 3 | 3 | 268 | 0 | 5.5 | 1.40 | 1.05 | 0.30 | 0.10 | 31 | 11 | 31 |
| 189 | 3 | 4 | 273 | 0 | 7.0 | 0.60 | 2.10 | 0.45 | 0.20 | 34 | 7 | 34 |
| 190 | 3 | 4 | 279 | 0 | 2.2 | 0.15 | 0.85 | 0.45 | 0.20 | 16 | 4 | 16 |
| 191 | 3 | 4 | 284 | 0 | 9.2 | 1.25 | 2.40 | 0.60 | 0.25 | 35 | 5 | 35 |
| 192 | 3 | 4 | 289 | 0 | 4.4 | 0.35 | 1.55 | 0.60 | 0.25 | 25 | 3 | 25 |
| 193 | 3 | 4 | 294 | 0 | 4.4 | 0.30 | 1.55 | 0.60 | 0.25 | 26 | 4 | 26 |
| 194 | 3 | 4 | 299 | 0 | 3.2 | 0.30 | 1.25 | 0.75 | 0.35 | 20 | 2 | 20 |
| 195 | 3 | 4 | 304 | 0 | 5.5 | 0.35 | 2.20 | 0.70 | 0.35 | 28 | 6 | 28 |
| 196 | 3 | 4 | 310 | 0 | 3.5 | 0.25 | 1.40 | 0.80 | 0.35 | 23 | 3 | 23 |
| 197 | 3 | 4 | 315 | 0 | 3.2 | 0.60 | 0.85 | 0.55 | 0.20 | 21 | 4 | 21 |
| 198 | 3 | 4 | 320 | 0 | 5.6 | 0.70 | 1.90 | 0.70 | 0.80 | 29 | 5 | 29 |
| 199 | 3 | 4 | 325 | 0 | 6.8 | 0.95 | 1.95 | 0.55 | 0.25 | 33 | 6 | 33 |
| 200 | 3 | 4 | 330 | 0 | 6.7 | 0.75 | 2.00 | 0.85 | 0.35 | 35 | 4 | 35 |
| 201 | 3 | 4 | 335 | 0 | 4.3 | 0.60 | 1.65 | 0.75 | 0.40 | 28 | 5 | 28 |
| 202 | 3 | 4 | 340 | 0 | 3.0 | 0.75 | 0.75 | 0.40 | 0.20 | 21 | 6 | 21 |
| 203 | 3 | 5 | 343 | 0 | 5.7 | 0.55 | 2.45 | 0.55 | 0.20 | 27 | 3 | 27 |
| 204 | 3 | 5 | 348 | 0 | 5.8 | 0.90 | 2.00 | 0.90 | 0.35 | 26 | 3 | 26 |
| 205 | 3 | 5 | 353 | 0 | 2.4 | 0.00 | 1.15 | 0.70 | 0.30 | 13 | 3 | 13 |
| 206 | 3 | 5 | 358 | 0 | 2.2 | 0.00 | 0.95 | 0.40 | 0.20 | 14 | 2 | 14 |
| 207 | 3 | 5 | 363 | 0 | 5.5 | 0.45 | 2.20 | 0.90 | 0.35 | 27 | 2 | 27 |
| 208 | 3 | 5 | 368 | 0 | 6.5 | 0.90 | 2.05 | 0.60 | 0.30 | 27 | 5 | 27 |
| 209 | 3 | 5 | 373 | 0 | 4.4 | 0.50 | 1.40 | 0.65 | 0.30 | 21 | 2 | 21 |
| 210 | 3 | 5 | 378 | 0 | 2.6 | 0.30 | 0.80 | 0.40 | 0.25 | 18 | 3 | 18 |
| 211 | 3 | 5 | 383 | 0 | 5.9 | 0.50 | 1.85 | 0.55 | 0.25 | 30 | 6 | 30 |
| 212 | 3 | 5 | 388 | 0 | 1.9 | 0.00 | 0.85 | 0.40 | 0.20 | 14 | 1 | 14 |
| 213 | 3 | 5 | 393 | 0 | 3.0 | 0.25 | 1.20 | 0.55 | 0.25 | 19 | 3 | 19 |
| 214 | 3 | 5 | 398 | 0 | 3.5 | 0.30 | 1.15 | 0.65 | 0.30 | 20 | 3 | 20 |
| 215 | 3 | 5 | 403 | 0 | 4.1 | 0.75 | 1.05 | 0.90 | 0.35 | 22 | 5 | 22 |
| 216 | 3 | 5 | 408 | 0 | 6.7 | 0.60 | 2.40 | 0.70 | 0.30 | 28 | 5 | 28 |
| 217 | 3 | 5 | 413 | 0 | 4.1 | 0.45 | 0.65 | 0.60 | 0.25 | 22 | 4 | 22 |
| 218 | 3 | 5 | 418 | 0 | 3.7 | 0.50 | 1.40 | 0.60 | 0.30 | 22 | 3 | 22 |
| 219 | 3 | 5 | 423 | 0 | 4.1 | 0.30 | 1.25 | 0.55 | 0.25 | 20 | 3 | 20 |
| 220 | 3 | 5 | 428 | 0 | 2.6 | 0.20 | 0.85 | 0.55 | 0.20 | 15 | 4 | 15 |

Listing of  Ident (1990) + Observed (1991-97)          82
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | STAT93 | DBH93 | HRT93 | SAP93 | RADlO93 | RADO593 | STMLN93 | CRNHT93 | CRNTP93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 | 3 | 5 | 433 | 0 | 5.2 | 0.300 | 1.85 | 0.70 | 0.35 | 25 | 3 | 25 |
| 222 | 4 | 1 | 435 | 0 | 4.2 | 1.000 | 1.55 | 0.60 | 0.25 | 25 | 5 | 25 |
| 223 | 4 | 1 | 440 | 0 | 3.8 | 0.750 | 0.80 | 0.55 | 0.25 | 28 | 6 | 28 |
| 224 | 4 | 1 | 445 | 0 | 4.5 | 0.350 | 1.50 | 0.50 | 0.25 | 27 | 7 | 27 |
| 225 | 4 | 1 | 450 | 0 | 4.3 | 1.350 | 1.15 | 0.55 | 0.20 | 28 | 9 | 28 |
| 226 | 4 | 1 | 455 | 0 | 3.7 | 0.250 | 1.20 | 0.40 | 0.20 | 26 | 10 | 26 |
| 227 | 4 | 1 | 461 | 0 | 4.5 | 0.600 | 1.20 | 0.65 | 0.30 | 27 | 7 | 27 |
| 228 | 4 | 1 | 466 | 0 | 5.2 | 0.700 | 1.50 | 0.40 | 0.20 | 30 | 9 | 30 |
| 229 | 4 | 1 | 471 | 0 | 5.9 | 1.200 | 1.50 | 0.70 | 0.20 | 30 | 3 | 30 |
| 230 | 4 | 1 | 476 | 0 | 4.9 | 0.550 | 1.50 | 0.45 | 0.20 | 26 | 5 | 26 |
| 231 | 4 | 1 | 481 | 0 | 5.1 | 0.900 | 1.45 | 0.70 | 0.25 | 29 | 4 | 29 |
| 232 | 4 | 1 | 486 | 0 | 5.5 | 0.550 | 2.05 | 0.35 | 0.20 | 30 | 6 | 30 |
| 233 | 4 | 1 | 491 | 0 | 5.0 | 0.750 | 1.50 | 0.45 | 0.20 | 26 | 4 | 26 |
| 234 | 4 | 1 | 496 | 0 | 4.4 | 0.550 | 1.25 | 0.55 | 0.20 | 23 | 5 | 23 |
| 235 | 4 | 1 | 501 | 0 | 5.4 | 0.500 | 2.00 | 1.05 | 0.50 | 23 | 1 | 23 |
| 236 | 4 | 1 | 507 | 0 | 2.7 | 0.000 | 1.15 | 0.65 | 0.30 | 15 | 1 | 15 |
| 237 | 4 | 1 | 512 | 0 | 3.5 | 0.300 | 1.45 | 1.05 | 0.50 | 20 | 2 | 20 |
| 238 | 4 | 1 | 517 | 0 | 4.1 | 0.000 | 1.80 | 0.95 | 0.45 | 20 | 4 | 20 |
| 239 | 4 | 1 | 525 | 0 | 3.7 | 0.600 | 0.80 | 0.45 | 0.20 | 25 | 4 | 25 |
| 240 | 4 | 1 | 530 | 0 | 3.0 | 0.350 | 1.10 | 0.45 | 0.20 | 24 | 4 | 24 |
| 241 | 4 | 1 | 535 | 0 | 4.9 | 0.600 | 1.45 | 0.25 | 0.10 | 24 | 3 | 24 |
| 242 | 4 | 2 | 539 | 0 | 3.5 | 0.500 | 1.20 | 0.65 | 0.30 | 21 | 4 | 21 |
| 243 | 4 | 2 | 548 | 0 | 3.8 | 0.450 | 1.05 | 0.50 | 0.25 | 21 | 3 | 21 |
| 244 | 4 | 2 | 557 | 0 | 5.3 | 1.150 | 1.60 | 0.75 | 0.40 | 29 | 5 | 29 |
| 245 | 4 | 2 | 561 | 1 | 1.9 | 0.000 | 1.00 | 0.65 | 0.25 | 17 | 3 | 8 |
| 246 | 4 | 2 | 564 | 0 | 5.2 | 0.650 | 1.85 | 0.90 | 0.30 | 23 | 2 | 23 |
| 247 | 4 | 2 | 569 | 0 | 6.7 | 0.800 | 1.40 | 0.45 | 0.20 | 30 | 6 | 30 |
| 248 | 4 | 2 | 575 | 1 | 2.2 | 0.400 | 0.45 | 0.50 | 0.30 | 13 | 3 | 7 |
| 249 | 4 | 2 | 576 | 0 | 3.3 | 0.400 | 0.90 | 0.45 | 0.20 | 21 | 6 | 21 |
| 250 | 4 | 2 | 583 | 0 | 2.7 | 0.350 | 0.70 | 0.65 | 0.35 | 16 | 4 | 16 |
| 251 | 4 | 2 | 590 | 0 | 4.8 | 0.550 | 1.35 | 0.60 | 0.25 | 21 | 5 | 21 |
| 252 | 4 | 2 | 595 | 0 | 3.6 | 0.300 | 1.25 | 0.55 | 0.25 | 17 | 1 | 17 |
| 253 | 4 | 2 | 602 | 0 | 4.5 | 0.550 | 1.30 | 0.70 | 0.30 | 26 | 2 | 26 |
| 254 | 4 | 2 | 611 | 0 | 2.5 | 0.000 | 1.00 | 0.45 | 0.20 | 16 | 4 | 16 |
| 255 | 4 | 2 | 617 | 0 | 3.3 | 0.300 | 1.00 | 0.40 | 0.20 | 20 | 5 | 20 |
| 256 | 4 | 2 | 624 | 0 | 3.1 | 0.400 | 1.00 | 0.65 | 0.25 | 17 | 3 | 17 |
| 257 | 4 | 2 | 630 | 0 | 2.2 | 0.000 | 1.00 | 0.65 | 0.30 | 14 | 1 | 14 |
| 258 | 4 | 2 | 635 | 1 | 3.2 | 0.300 | 1.10 | 0.40 | 0.20 | 20 | 3 | 12 |
| 259 | 4 | 2 | 637 | 0 | 4.3 | 0.300 | 1.70 | 0.50 | 0.25 | 22 | 2 | 22 |
| 260 | 4 | 2 | 645 | 0 | 2.5 | 0.300 | 0.75 | 0.30 | 0.10 | 17 | 5 | 17 |
| 261 | 4 | 2 | 650 | 0 | 3.1 | 0.300 | 0.95 | 0.40 | 0.20 | 18 | 5 | 18 |
| 262 | 4 | 3 | 652 | 0 | 5.4 | 0.950 | 0.75 | 0.60 | 0.30 | 24 | 2 | 24 |
| 263 | 4 | 3 | 657 | 0 | 3.5 | 0.450 | 1.30 | 0.80 | 0.40 | 20 | 4 | 20 |
| 264 | 4 | 3 | 662 | 0 | 2.5 | 0.300 | 0.95 | 0.65 | 0.30 | 17 | 3 | 17 |

| OBS | BLCK | PLOT | TAG | STAT93 | DBH93 | HRT93 | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRHT93 | CRNTP93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 265 | 4 | 3 | 667 | 0 | 2.9 | 0.300 | 1.05 | 0.90 | 0.40 | 17 | 2 | 17 |
| 266 | 4 | 3 | 672 | 0 | 0.0 | 0.155 | 0.35 | 1.05 | 0.65 | 6 | 2 | 17 |
| 267 | 4 | 3 | 677 | 0 | 2.3 | 0.250 | 0.70 | 0.25 | 0.10 | 17 | 5 | 17 |
| 268 | 4 | 3 | 683 | 0 | 4.6 | 0.400 | 1.55 | 0.75 | 0.30 | 20 | 3 | 20 |
| 269 | 4 | 3 | 688 | 0 | 3.4 | 0.500 | 1.00 | 0.55 | 0.25 | 19 | 6 | 19 |
| 270 | 4 | 3 | 694 | 0 | 4.0 | 0.500 | 1.35 | 0.90 | 0.40 | 21 | 1 | 21 |
| 271 | 4 | 3 | 699 | 0 | 4.4 | 0.750 | 1.50 | 0.90 | 0.45 | 19 | 3 | 19 |
| 272 | 4 | 3 | 704 | 0 | 3.5 | 0.450 | 0.90 | 0.50 | 0.25 | 16 | 4 | 16 |
| 273 | 4 | 3 | 709 | 0 | 2.7 | 0.000 | 1.30 | 0.70 | 0.30 | 15 | 3 | 15 |
| 274 | 4 | 3 | 714 | 0 | 2.9 | 0.200 | 1.10 | 0.80 | 0.35 | 18 | 4 | 18 |
| 275 | 4 | 3 | 719 | 0 | 3.5 | 0.000 | 1.45 | 0.65 | 0.30 | 19 | 2 | 19 |
| 276 | 4 | 3 | 724 | 0 | 4.1 | 0.500 | 1.25 | 0.75 | 0.30 | 19 | 4 | 19 |
| 277 | 4 | 3 | 729 | 0 | 2.0 | 0.150 | 0.80 | 0.45 | 0.20 | 14 | 5 | 14 |
| 278 | 4 | 3 | 734 | 0 | 4.2 | 0.200 | 1.40 | 0.70 | 0.30 | 22 | 3 | 22 |
| 279 | 4 | 3 | 739 | 0 | 2.7 | 0.000 | 1.20 | 0.65 | 0.20 | 16 | 2 | 16 |
| 280 | 4 | 3 | 744 | 0 | 3.2 | 0.450 | 0.85 | 0.75 | 0.35 | 17 | 4 | 17 |
| 281 | 4 | 3 | 749 | 0 | 3.1 | 0.700 | 1.20 | 0.90 | 0.45 | 18 | 4 | 18 |
| 282 | 4 | 3 | 754 | 0 | 4.1 | 0.600 | 1.60 | 0.90 | 0.35 | 21 | 3 | 21 |
| 283 | 4 | 3 | 759 | 0 | 5.8 | 0.600 | 1.90 | 1.10 | 0.50 | 25 | 1 | 25 |
| 284 | 4 | 3 | 764 | 0 | 3.7 | 0.350 | 1.45 | 1.05 | 0.45 | 17 | 1 | 17 |
| 285 | 4 | 3 | 769 | 0 | 3.7 | 0.250 | 1.50 | 0.95 | 0.40 | 19 | 1 | 19 |
| 286 | 4 | 4 | 773 | 0 | 4.8 | 0.200 | 2.00 | 0.85 | 0.40 | 23 | 1 | 23 |
| 287 | 4 | 4 | 781 | 0 | 4.8 | 0.700 | 1.45 | 1.05 | 0.55 | 19 | 4 | 19 |
| 288 | 4 | 4 | 787 | 0 | 4.3 | 0.450 | 1.60 | 1.05 | 0.45 | 20 | 3 | 20 |
| 289 | 4 | 4 | 794 | 0 | 3.0 | 0.350 | 1.20 | 0.75 | 0.35 | 19 | 4 | 19 |
| 290 | 4 | 4 | 801 | 0 | 4.9 | 0.950 | 0.95 | 0.85 | 0.35 | 21 | 1 | 21 |
| 291 | 4 | 4 | 807 | 0 | 5.6 | 0.700 | 1.55 | 0.85 | 0.40 | 22 | 3 | 22 |
| 292 | 4 | 4 | 812 | 0 | 3.6 | 0.400 | 1.00 | 0.55 | 0.25 | 18 | 5 | 18 |
| 293 | 4 | 4 | 819 | 0 | 5.6 | 0.950 | 1.55 | 0.85 | 0.40 | 20 | 2 | 20 |
| 294 | 4 | 4 | 826 | 0 | 3.6 | 0.450 | 1.30 | 0.90 | 0.40 | 19 | 2 | 19 |
| 295 | 4 | 4 | 837 | 0 | 3.1 | 0.000 | 1.60 | 0.90 | 0.40 | 15 | 2 | 15 |
| 296 | 4 | 4 | 844 | 0 | 3.5 | 0.400 | 1.20 | 0.90 | 0.45 | 16 | 3 | 16 |
| 297 | 4 | 4 | 851 | 0 | 4.0 | 0.500 | 1.10 | 0.75 | 0.35 | 22 | 4 | 22 |
| 298 | 4 | 4 | 858 | 0 | 2.7 | 0.500 | 0.65 | 0.70 | 0.40 | 16 | 3 | 16 |
| 299 | 4 | 4 | 863 | 0 | 4.7 | 0.650 | 1.45 | 0.75 | 0.35 | 22 | 6 | 22 |
| 300 | 4 | 4 | 869 | 0 | 3.3 | 0.300 | 0.95 | 0.55 | 0.25 | 15 | 4 | 15 |
| 301 | 4 | 4 | 875 | 0 | 3.5 | 0.300 | 1.55 | 1.00 | 0.45 | 17 | 4 | 17 |
| 302 | 4 | 4 | 881 | 0 | 3.9 | 0.300 | 1.35 | 0.90 | 0.45 | 16 | 2 | 16 |
| 303 | 4 | 5 | 885 | 0 | 3.6 | 0.300 | 1.35 | 0.85 | 0.40 | 20 | 2 | 20 |
| 304 | 4 | 5 | 890 | 0 | 5.0 | 0.650 | 1.45 | 0.90 | 0.45 | 18 | 1 | 18 |
| 305 | 4 | 5 | 895 | 0 | 3.2 | 0.250 | 0.95 | 0.65 | 0.25 | 17 | 3 | 17 |
| 306 | 4 | 5 | 900 | 0 | 2.7 | 0.450 | 0.85 | 0.75 | 0.40 | 16 | 5 | 16 |
| 307 | 4 | 5 | 905 | 0 | 4.1 | 0.400 | 1.30 | 0.75 | 0.35 | 20 | 3 | 20 |
| 308 | 4 | 5 | 910 | 0 | 3.4 | 0.300 | 1.10 | 0.90 | 0.50 | 16 | 1 | 16 |

| OBS | BLCK | PLOT | TAG | STAT93 | DBH93 | HRT93 | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRHT93 | CRNTP93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 309 | 4 | 5 | 915 | 0 | 3.2 | 0.25 | 1.15 | 0.85 | 0.40 | 17 | 2 | 17 |
| 310 | 4 | 5 | 920 | 0 | 3.0 | 0.15 | 1.35 | 1.00 | 0.45 | 13 | 3 | 13 |
| 311 | 4 | 5 | 925 | 0 | 2.7 | 0.20 | 0.80 | 0.50 | 0.20 | 13 | 1 | 13 |
| 312 | 4 | 5 | 930 | 0 | 3.0 | 0.25 | 0.90 | 0.60 | 0.25 | 17 | 2 | 17 |
| 313 | 4 | 5 | 935 | 0 | 4.7 | 0.50 | 0.85 | 0.85 | 0.40 | 20 | 1 | 20 |
| 314 | 4 | 5 | 940 | 0 | 2.5 | 0.25 | 0.90 | 0.90 | 0.40 | 14 | 1 | 14 |
| 315 | 4 | 5 | 945 | 0 | 3.5 | 0.00 | 1.35 | 0.65 | 0.30 | 16 | 1 | 16 |
| 316 | 4 | 5 | 950 | 0 | 2.7 | 0.25 | 0.90 | 0.75 | 0.40 | 16 | 1 | 16 |
| 317 | 4 | 5 | 955 | 0 | 3.6 | 0.50 | 1.25 | 0.70 | 0.30 | 19 | 2 | 19 |
| 318 | 4 | 5 | 960 | 0 | 2.6 | 0.30 | 0.90 | 0.70 | 0.30 | 11 | 1 | 11 |
| 319 | 4 | 5 | 965 | 0 | 2.3 | 0.00 | 1.05 | 0.85 | 0.35 | 12 | 3 | 12 |
| 320 | 4 | 5 | 970 | 0 | 2.9 | 0.25 | 0.90 | 0.65 | 0.30 | 13 | 5 | 13 |
| 321 | 4 | 5 | 975 | 0 | 2.2 | 0.00 | 1.00 | 0.75 | 0.35 | 11 | 1 | 11 |
| 322 | 4 | 5 | 980 | 0 | 1.8 | 0.35 | 0.40 | 0.75 | 0.30 | 10 | 2 | 10 |
| 323 | 4 | 5 | 985 | 0 | 3.6 | 0.25 | 1.15 | 0.75 | 0.30 | 17 | 3 | 17 |
| 324 | 4 | 5 | 990 | 0 | 2.0 | 0.25 | 0.55 | 0.60 | 0.25 | 12 | 3 | 12 |
| 325 | 4 | 5 | 995 | 0 | 1.9 | 0.00 | 0.85 | 0.75 | 0.35 | 10 | 3 | 10 |

Listing of  Ident (1990) + Observed (1991-97)          85 / 86
08:11 Thursday, October 15, 1998

| OBS | BLCK | PLOT | STAG94 | DBH94 | HRT94 | SAP94 | RAD1094 | RAD0594 | STMLN94 | CRNHT94 | CRNTP94 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 3 | 0 | 6.1 | 1.75 | 1.20 | 0.350 | 0.10 | 39 | 19 | 39 |
| 2 | 1 | 1 | 11 | 0 | 8.8 | 1.85 | 2.40 | 0.600 | 0.30 | 41 | 15 | 41 |
| 3 | 1 | 1 | 21 | 0 | 6.8 | 2.55 | 1.10 | 0.400 | 0.20 | 38 | 18 | 38 |
| 4 | 1 | 1 | 26 | 0 | 7.5 | 2.25 | 1.55 | 0.250 | 0.15 | 43 | 21 | 43 |
| 5 | 1 | 1 | 33 | 0 | 7.5 | 1.75 | 2.00 | 0.400 | 0.25 | 39 | 20 | 39 |
| 6 | 1 | 1 | 41 | 0 | 6.5 | 2.05 | 1.40 | 0.200 | 0.15 | 39 | 23 | 39 |
| 7 | 1 | 1 | 46 | 0 | 7.5 | 1.90 | 1.25 | 0.400 | 0.15 | 39 | 20 | 39 |
| 8 | 1 | 1 | 54 | 0 | 5.8 | 1.50 | 1.30 | 0.200 | 0.15 | 39´ | 21 | 39 |
| 9 | 1 | 1 | 60 | 0 | 7.8 | 2.15 | 1.90 | 0.400 | 0.20 | 43 | 22 | 43 |
| 10 | 1 | 1 | 66 | 0 | 7.1 | 2.00 | 1.80 | 0.300 | 0.15 | 47 | 22 | 47 |
| 11 | 1 | 2 | 76 | 0 | 7.8 | 1.65 | 2.20 | 0.350 | 0.20 | 43 | 23 | 43 |
| 12 | 1 | 2 | 83 | 0 | 7.7 | 1.80 | 1.30 | 0.250 | 0.15 | 43 | 17 | 43 |
| 13 | 1 | 2 | 92 | 0 | 8.0 | 1.50 | 1.65 | 0.400 | 0.20 | 40 | 14 | 40 |
| 14 | 1 | 2 | 98 | 2 | 5.8 | 2.00 | 0.80 | 0.200 | 0.10 | 32 | 19 | 32 |
| 15 | 1 | 2 | 101 | 0 | 7.5 | 1.20 | 1.35 | 0.300 | 0.20 | 41 | 23 | 41 |
| 16 | 1 | 2 | 104 | 2 | 5.9 | 1.45 | 1.30 | 0.175 | 0.10 | 34 | 18 | 34 |
| 17 | 1 | 2 | 112 | 0 | 8.1 | 2.15 | 1.80 | 0.400 | 0.25 | 46 | 26 | 46 |
| 18 | 1 | 2 | 120 | 0 | 8.1 | 1.60 | 1.95 | 0.300 | 0.20 | 42 | 10 | 42 |
| 19 | 1 | 2 | 131 | 0 | 6.7 | 1.25 | 1.35 | 0.250 | 0.10 | 42 | 23 | 42 |
| 20 | 1 | 2 | 140 | 0 | 6.2 | 1.30 | 0.95 | 0.200 | 0.10 | 39 | 14 | 39 |
| 21 | 1 | 2 | 148 | 0 | 8.1 | 1.75 | 1.25 | 0.300 | 0.20 | 45 | 21 | 45 |
| 22 | 1 | 2 | 157 | 0 | 7.3 | 1.75 | 1.35 | 0.400 | 0.20 | 40 | 16 | 40 |
| 23 | 1 | 3 | 167 | 0 | 7.5 | 2.00 | 1.45 | 0.300 | 0.15 | 41 | 21 | 41 |
| 24 | 1 | 3 | 172 | 0 | 6.7 | 1.55 | 1.20 | 0.200 | 0.10 | 34 | 19 | 34 |
| 25 | 1 | 3 | 177 | 0 | 5.5 | 1.55 | 1.45 | 0.250 | 0.10 | 30 | 19 | 30 |
| 26 | 1 | 3 | 184 | 0 | 6.1 | 1.55 | 1.50 | 0.350 | 0.20 | 35 | 21 | 35 |
| 27 | 1 | 3 | 189 | 0 | 7.1 | 1.25 | 1.40 | 0.250 | 0.15 | 43 | 20 | 43 |
| 28 | 1 | 3 | 196 | 0 | 7.6 | 1.85 | 1.25 | 0.250 | 0.15 | 41 | 19 | 41 |
| 29 | 1 | 3 | 202 | 0 | 7.6 | 1.55 | 1.65 | 0.200 | 0.10 | 42 | 20 | 42 |
| 30 | 1 | 3 | 210 | 1 | 6.3 | 2.15 | 0.65 | 0.200 | 0.10 | 42 | 20 | 38 |
| 31 | 1 | 3 | 211 | 0 | 7.3 | 1.55 | 1.35 | 0.300 | 0.15 | 39 | 19 | 39 |
| 32 | 1 | 3 | 217 | 0 | 6.4 | 1.55 | 1.15 | 0.250 | 0.10 | 37 | 22 | 37 |
| 33 | 1 | 3 | 222 | 0 | 6.1 | 1.40 | 1.50 | 0.300 | 0.15 | 35 | 22 | 35 |
| 34 | 1 | 3 | 227 | 0 | 7.1 | 1.15 | 1.85 | 0.150 | 0.05 | 44 | 24 | 44 |
| 35 | 1 | 3 | 232 | 0 | 6.5 | 1.10 | 1.55 | 0.300 | 0.15 | 44 | 23 | 44 |
| 36 | 1 | 4 | 238 | 0 | 8.0 | 1.35 | 1.55 | 0.300 | 0.15 | 43 | 25 | 43 |
| 37 | 1 | 4 | 244 | 0 | 7.0 | 1.45 | 1.60 | 0.200 | 0.10 | 39 | 22 | 39 |
| 38 | 1 | 4 | 249 | 0 | 6.9 | 1.50 | 1.45 | 0.250 | 0.10 | 41 | 20 | 41 |
| 39 | 1 | 4 | 255 | 0 | 6.3 | 1.80 | 1.15 | 0.150 | 0.05 | 44 | 20 | 44 |
| 40 | 1 | 4 | 260 | 0 | 5.4 | 0.95 | 1.55 | 0.250 | 0.10 | 40 | 21 | 40 |
| 41 | 1 | 4 | 261 | 0 | 7.9 | 1.15 | 2.05 | 0.250 | 0.10 | 44 | 17 | 44 |
| 42 | 1 | 4 | 267 | 0 | 7.6 | 1.55 | 1.55 | 0.300 | 0.15 | 46 | 26 | 46 |
| 43 | 1 | 4 | 274 | 0 | 6.6 | 1.55 | 1.40 | 0.250 | 0.10 | 40 | 19 | 40 |
| 44 | 1 | 4 | 279 | 2 | 8.9 | 2.30 | 1.85 | 0.300 | 0.15 | 39 | 21 | 39 |
| 45 | 1 | 4 | 280 | 0 | 6.3 | 0.70 | 1.75 | 0.200 | 0.100 | 40 | 20 | 40 |
| 46 | 1 | 4 | 286 | 0 | 7.1 | 1.30 | 1.45 | 0.250 | 0.100 | 40 | 22 | 40 |
| 47 | 1 | 4 | 291 | 0 | 7.3 | 1.25 | 2.00 | 0.250 | 0.150 | 44 | 20 | 44 |
| 48 | 1 | 4 | 296 | 0 | 4.2 | 0.00 | 1.85 | 0.200 | 0.100 | 33 | 22 | 33 |
| 49 | 1 | 4 | 302 | 2 | 6.5 | 1.35 | 1.50 | 0.250 | 0.100 | 38 | 22 | 39 |
| 50 | 1 | 4 | 303 | 0 | 6.5 | 0.55 | 1.85 | 0.300 | 0.150 | 40 | 21 | 40 |
| 51 | 1 | 4 | 309 | 0 | 5.6 | 1.50 | 0.95 | 0.250 | 0.100 | 37 | 22 | 37 |
| 52 | 1 | 4 | 315 | 0 | 8.5 | 2.05 | 1.75 | 0.300 | 0.150 | 47 | 21 | 47 |
| 53 | 1 | 4 | 320 | 0 | 5.4 | 2.25 | 0.70 | 0.200 | 0.100 | 34 | 20 | 34 |
| 54 | 1 | 4 | 325 | 0 | 7.0 | 1.85 | 1.35 | 0.200 | 0.100 | 32 | 13 | 32 |
| 55 | 2 | 1 | 334 | 0 | 4.7 | 1.25 | 0.85 | 0.150 | 0.100 | 35 | 25 | 35 |
| 56 | 2 | 1 | 347 | 0 | 5.0 | 1.05 | 0.85 | 0.100 | 0.050 | 31 | 22 | 31 |
| 57 | 2 | 1 | 359 | 0 | 4.9 | 1.30 | 1.25 | 0.200 | 0.100 | 31 | 15 | 31 |
| 58 | 2 | 1 | 367 | 0 | 5.0 | 1.15 | 1.05 | 0.250 | 0.150 | 33 | 18 | 33 |
| 59 | 2 | 1 | 374 | 0 | 5.1 | 1.35 | 1.00 | 0.200 | 0.150 | 33 | 22 | 33 |
| 60 | 2 | 1 | 383 | 0 | 6.4 | 1.95 | 1.15 | 0.200 | 0.100 | 35 | 24 | 35 |
| 61 | 2 | 1 | 392 | 0 | 4.7 | 0.90 | 1.25 | 0.250 | 0.100 | 29 | 11 | 27 |
| 62 | 2 | 1 | 403 | 0 | 6.7 | 1.80 | 1.25 | 0.250 | 0.150 | 36 | 18 | 36 |
| 63 | 2 | 1 | 414 | 0 | 6.8 | 1.65 | 1.20 | 0.200 | 0.100 | 31 | 11 | 31 |
| 64 | 2 | 1 | 425 | 0 | 7.5 | 2.05 | 1.40 | 0.200 | 0.100 | 37 | 11 | 37 |
| 65 | 2 | 1 | 434 | 0 | 7.1 | 2.05 | 1.25 | 0.150 | 0.050 | 40 | 14 | 39 |
| 66 | 2 | 1 | 442 | 0 | 4.6 | 1.00 | 0.55 | 0.250 | 0.100 | 36 | 11 | 36 |
| 67 | 2 | 1 | 453 | 0 | 4.5 | 0.65 | 0.45 | 0.200 | 0.050 | 31 | 12 | 31 |
| 68 | 2 | 1 | 458 | 0 | 4.6 | 0.85 | 0.65 | 0.200 | 0.100 | 35 | 20 | 35 |
| 69 | 2 | 1 | 467 | 0 | 3.9 | 1.00 | 0.60 | 0.200 | 0.100 | 26 | 8 | 24 |
| 70 | 2 | 2 | 477 | 0 | 4.5 | 1.50 | 0.65 | 0.100 | 0.050 | 30 | 20 | 30 |
| 71 | 2 | 2 | 483 | 0 | 6.7 | 1.45 | 1.10 | 0.250 | 0.150 | 39 | 24 | 39 |
| 72 | 2 | 2 | 490 | 0 | 6.8 | 1.55 | 1.35 | 0.250 | 0.100 | 38 | 19 | 38 |
| 73 | 2 | 2 | 495 | 0 | 6.0 | 1.45 | 1.00 | 0.200 | 0.100 | 41 | 20 | 40 |
| 74 | 2 | 2 | 501 | 0 | 5.4 | 1.35 | 0.85 | 0.200 | 0.100 | 37 | 23 | 37 |
| 75 | 2 | 2 | 510 | 0 | 5.4 | 1.55 | 0.70 | 0.200 | 0.100 | 38 | 21 | 38 |
| 76 | 2 | 2 | 518 | 0 | 7.5 | 2.15 | 1.30 | 0.250 | 0.150 | 33 | 11 | 33 |
| 77 | 2 | 2 | 524 | 0 | 6.4 | 2.10 | 1.05 | 0.200 | 0.100 | 37 | 20 | 37 |
| 78 | 2 | 2 | 532 | 0 | 7.1 | 1.95 | 1.10 | 0.300 | 0.150 | 44 | 25 | 44 |
| 79 | 2 | 2 | 535 | 2 | 4.4 | 1.10 | 1.10 | 0.175 | 0.075 | 31 | 13 | 31 |
| 80 | 2 | 2 | 543 | 0 | 5.4 | 1.40 | 0.80 | 0.200 | 0.100 | 36 | 19 | 36 |
| 81 | 2 | 2 | 544 | 2 | 6.8 | 1.65 | 1.50 | 0.250 | 0.125 | 40 | 18 | 40 |
| 82 | 2 | 2 | 552 | 0 | 5.8 | 1.00 | 1.30 | 0.250 | 0.100 | 40 | 24 | 40 |
| 83 | 2 | 2 | 561 | 0 | 5.4 | 1.40 | 0.70 | 0.350 | 0.100 | 31 | 17 | 31 |
| 84 | 2 | 2 | 566 | 2 | 6.1 | 1.25 | 1.65 | 0.250 | 0.100 | 39 | 18 | 39 |
| 85 | 2 | 2 | 569 | 0 | 7.2 | 2.05 | 1.10 | 0.150 | 0.050 | 36 | 18 | 36 |
| 86 | 2 | 2 | 575 | 0 | 5.5 | 1.60 | 0.85 | 0.250 | 0.100 | 33 | 22 | 33 |
| 87 | 2 | 2 | 583 | 0 | 5.5 | 1.20 | 0.85 | 0.150 | 0.050 | 45 | 22 | 45 |
| 88 | 2 | 2 | 589 | 0 | 5.8 | 1.45 | 0.95 | 0.200 | 0.100 | 36 | 12 | 21 |

| OBS | BLOCK | PLOT | TAG | STA94 | DBH94 | HRT94 | SAP94 | RAD1094 | RAD0594 | STMLN94 | CRNHT94 | CRNTP94 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 2 | 2 | 599 | 0 | 6.1 | 2.05 | 0.55 | 0.20 | 0.10 | 36 | 21 | 36 |
| 90 | 2 | 2 | 607 | 0 | 4.6 | 1.30 | 0.75 | 0.15 | 0.05 | 34 | 15 | 34 |
| 91 | 2 | 2 | 613 | 2 | 5.6 | 1.50 | 1.35 | 0.20 | 0.10 | . | . | . |
| 92 | 2 | 2 | 618 | 0 | 3.8 | 1.00 | 0.75 | 0.10 | 0.05 | 33 | 22 | 31 |
| 93 | 2 | 3 | 626 | 0 | 7.4 | 1.55 | 1.40 | 0.20 | 0.10 | 35 | 18 | 35 |
| 94 | 2 | 3 | 635 | 0 | 7.2 | 1.90 | 1.15 | 0.20 | 0.10 | 37 | 23 | 37 |
| 95 | 2 | 3 | 640 | 0 | 6.9 | 1.60 | 1.15 | 0.25 | 0.10 | 42 | 20 | 42 |
| 96 | 2 | 3 | 649 | 0 | 5.4 | 1.55 | 0.75 | 0.15 | 0.10 | 32 | 16 | 32 |
| 97 | 2 | 3 | 654 | 0 | 5.9 | 1.90 | 0.60 | 0.10 | 0.05 | 32 | 21 | 32 |
| 98 | 2 | 3 | 659 | 0 | 6.9 | 1.55 | 1.15 | 0.15 | 0.05 | 38 | 20 | 38 |
| 99 | 2 | 3 | 664 | 0 | 6.6 | 1.85 | 0.95 | 0.15 | 0.05 | 39 | 18 | 39 |
| 100 | 2 | 3 | 670 | 0 | 6.8 | 1.30 | 1.25 | 0.25 | 0.10 | 41 | 13 | 41 |
| 101 | 2 | 3 | 676 | 0 | 7.0 | 1.40 | 1.40 | 0.20 | 0.10 | 38 | 20 | 38 |
| 102 | 2 | 3 | 697 | 0 | 5.7 | 1.85 | 0.60 | 0.10 | 0.05 | 33 | 21 | 33 |
| 103 | 2 | 3 | 705 | 0 | 6.8 | 1.35 | 1.40 | 0.25 | 0.10 | 41 | 23 | 41 |
| 104 | 2 | 3 | 715 | 0 | 6.4 | 1.20 | 1.65 | 0.25 | 0.15 | 39 | 20 | 39 |
| 105 | 2 | 3 | 721 | 0 | 7.9 | 1.75 | 1.40 | 0.20 | 0.10 | 42 | 21 | 42 |
| 106 | 2 | 3 | 730 | 0 | 8.8 | 2.35 | 1.55 | 0.25 | 0.10 | 42 | 17 | 42 |
| 107 | 2 | 3 | 739 | 0 | 7.4 | 1.25 | 0.75 | 0.25 | 0.15 | 40 | 17 | 40 |
| 108 | 2 | 4 | 744 | 0 | 6.3 | 1.25 | 1.60 | 0.30 | 0.10 | 40 | 17 | 40 |
| 109 | 2 | 4 | 751 | 0 | 6.0 | 1.95 | 1.15 | 0.20 | 0.10 | 38 | 16 | 38 |
| 110 | 2 | 4 | 758 | 0 | 4.9 | 1.25 | 0.85 | 0.10 | 0.05 | 36 | 23 | 36 |
| 111 | 2 | 4 | 767 | 0 | 6.1 | 1.10 | 1.00 | 0.20 | 0.10 | 40 | 17 | 40 |
| 112 | 2 | 4 | 772 | 0 | 5.7 | 1.45 | 0.85 | 0.10 | 0.05 | 37 | 22 | 37 |
| 113 | 2 | 4 | 778 | 0 | 4.4 | 0.95 | 0.70 | 0.15 | 0.05 | 34 | 15 | 34 |
| 114 | 2 | 4 | 787 | 0 | 4.7 | 1.10 | 0.90 | 0.20 | 0.10 | 33 | 13 | 33 |
| 115 | 2 | 4 | 793 | 0 | 6.6 | 1.80 | 0.65 | 0.20 | 0.10 | 36 | 17 | 36 |
| 116 | 2 | 4 | 798 | 0 | 4.6 | 0.85 | 0.75 | 0.10 | 0.05 | 31 | 21 | 31 |
| 117 | 2 | 4 | 808 | 0 | 5.2 | 0.90 | 0.90 | 0.15 | 0.05 | 37 | 26 | 37 |
| 118 | 2 | 4 | 818 | 0 | 5.7 | 1.55 | 0.70 | 0.20 | 0.10 | 44 | 26 | 44 |
| 119 | 2 | 4 | 825 | 0 | 4.5 | 1.05 | 1.20 | 0.20 | 0.10 | 34 | 22 | 34 |
| 120 | 2 | 4 | 830 | 0 | 6.4 | 1.15 | 1.40 | 0.20 | 0.10 | 37 | 26 | 37 |
| 121 | 2 | 4 | 835 | 0 | 6.4 | 1.75 | 0.90 | 0.15 | 0.10 | 33 | 14 | 33 |
| 122 | 2 | 4 | 841 | 0 | 4.9 | 1.05 | 0.70 | 0.10 | 0.05 | 30 | 19 | 30 |
| 123 | 3 | 1 | 4 | 0 | 6.9 | 0.70 | 2.10 | 0.30 | 0.15 | 34 | 8 | 34 |
| 124 | 3 | 1 | 10 | 0 | 6.6 | 0.90 | 1.95 | 0.55 | 0.25 | 31 | 7 | 31 |
| 125 | 3 | 1 | 15 | 0 | 4.9 | 0.80 | 1.45 | 0.40 | 0.20 | 26 | 8 | 26 |
| 126 | 3 | 1 | 21 | 0 | 3.0 | 0.30 | 1.15 | 0.40 | 0.20 | 25 | 8 | 25 |
| 127 | 3 | 1 | 26 | 0 | 4.6 | 0.65 | 1.05 | 0.50 | 0.20 | 26 | 7 | 26 |
| 128 | 3 | 1 | 32 | 0 | 4.7 | 0.75 | 1.25 | 0.50 | 0.20 | 27 | 6 | 27 |
| 129 | 3 | 1 | 38 | 0 | 4.1 | 0.55 | 1.65 | 0.50 | 0.20 | 23 | 5 | 23 |
| 130 | 3 | 1 | 43 | 0 | 8.3 | 0.80 | 2.25 | 0.50 | 0.25 | 40 | 10 | 40 |
| 131 | 3 | 1 | 49 | 0 | 2.7 | 0.40 | 0.90 | 0.45 | 0.20 | 20 | 7 | 20 |
| 132 | 3 | 1 | 54 | 0 | 3.7 | 0.55 | 1.20 | 0.60 | 0.25 | 24 | 7 | 24 |

| OBS | BLOCK | PLOT | TAG | STA94 | DBH94 | HRT94 | SAP94 | RAD1094 | RAD0594 | STMLN94 | CRNHT94 | CRNTP94 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133 | 3 | 1 | 60 | 0 | 7.5 | 1.40 | 1.45 | 0.20 | 0.100 | 32 | 10 | 32.0 |
| 134 | 3 | 1 | 66 | 0 | 4.4 | 0.45 | 1.45 | 0.60 | 0.200 | 21 | 3 | 21.0 |
| 135 | 3 | 2 | 72 | 0 | 5.3 | 0.85 | 1.65 | 0.35 | 0.150 | 20 | 5 | 20.0 |
| 136 | 3 | 2 | 77 | 0 | 3.1 | 0.25 | 0.15 | 0.45 | 0.150 | 16 | 4 | 10.0 |
| 137 | 3 | 2 | 82 | 0 | 3.1 | 0.30 | 1.10 | 0.50 | 0.250 | 21 | 5 | 21.0 |
| 138 | 3 | 2 | 87 | 0 | 7.3 | 1.85 | 1.40 | 0.35 | 0.150 | 26 | 14 | 26.0 |
| 139 | 3 | 2 | 92 | 0 | 3.0 | 0.30 | 1.10 | 0.80 | 0.300 | 16 | 4 | 16.0 |
| 140 | 3 | 2 | 98 | 0 | 7.6 | 1.60 | 1.70 | 0.50 | 0.250 | 28 | 4 | 28.0 |
| 141 | 3 | 2 | 104 | 0 | 3.7 | 0.35 | 1.20 | 0.50 | 0.200 | 21 | 6 | 20.0 |
| 142 | 3 | 2 | 109 | 0 | 7.0 | 0.90 | 2.05 | 0.45 | 0.150 | 37 | 8 | 37.0 |
| 143 | 3 | 2 | 114 | 0 | 3.6 | 0.55 | 1.05 | 0.85 | 0.400 | 20 | 5 | 20.0 |
| 144 | 3 | 2 | 119 | 0 | 2.4 | 0.00 | 0.95 | 0.60 | 0.300 | 14 | 3 | 14.0 |
| 145 | 3 | 2 | 124 | 0 | 7.1 | 1.30 | 2.00 | 0.75 | 0.350 | 35 | 10 | 35.0 |
| 146 | 3 | 2 | 129 | 0 | 5.2 | 0.95 | 1.05 | 0.30 | 0.150 | 28 | 9 | 28.0 |
| 147 | 3 | 2 | 134 | 0 | 8.0 | 1.20 | 2.15 | 0.50 | 0.250 | 30 | 6 | 30.0 |
| 148 | 3 | 2 | 139 | 0 | 6.5 | 0.60 | 1.80 | 0.25 | 0.100 | 32 | 8 | 32.0 |
| 149 | 3 | 2 | 144 | 0 | 6.9 | 0.95 | 1.45 | 0.35 | 0.150 | 34 | 10 | 34.0 |
| 150 | 3 | 2 | 149 | 0 | 2.4 | 0.35 | 0.70 | 0.30 | 0.125 | 17 | 7 | 17.0 |
| 151 | 3 | 2 | 154 | 0 | 7.9 | 1.50 | 1.90 | 0.90 | 0.300 | 37 | 12 | 37.0 |
| 152 | 3 | 2 | 159 | 0 | 5.1 | 0.70 | 1.25 | 0.25 | 0.100 | 28 | 12 | 28.0 |
| 153 | 3 | 2 | 164 | 0 | 4.9 | 1.05 | 0.85 | 0.25 | 0.100 | 34 | 14 | 34.0 |
| 154 | 3 | 2 | 169 | 0 | 6.3 | 1.40 | 1.45 | 0.25 | 0.100 | 33 | 10 | 33.0 |
| 155 | 3 | 2 | 174 | 0 | 6.5 | 0.80 | 2.05 | 0.40 | 0.150 | 35 | 12 | 35.0 |
| 156 | 3 | 3 | 181 | 0 | 3.3 | 0.55 | 1.15 | 0.60 | 0.250 | 20 | 6 | 20.0 |
| 157 | 3 | 3 | 187 | 0 | 4.1 | 0.65 | 1.15 | 0.55 | 0.300 | 24 | 5 | 24.0 |
| 158 | 3 | 3 | 194 | 0 | 8.3 | 1.55 | 2.05 | 0.95 | 0.450 | 39 | 13 | 39.0 |
| 159 | 3 | 3 | 202 | 0 | 3.4 | 0.45 | 0.90 | 0.25 | 0.100 | 19 | 5 | 19.0 |
| 160 | 3 | 3 | 207 | 0 | 4.7 | 0.70 | 1.10 | 0.40 | 0.150 | 32 | 8 | 32.0 |
| 161 | 3 | 3 | 213 | 0 | 5.4 | 0.65 | 1.75 | 0.80 | 0.350 | 29 | 6 | 29.0 |
| 162 | 3 | 3 | 219 | 0 | 5.8 | 0.90 | 1.45 | 0.40 | 0.150 | 32 | 7 | 32.0 |
| 163 | 3 | 3 | 224 | 0 | 7.9 | 1.00 | 2.65 | 0.65 | 0.350 | 34 | 6 | 34.0 |
| 164 | 3 | 3 | 233 | 0 | 3.5 | 0.45 | 0.70 | 0.60 | 0.200 | 22 | 5 | 22.0 |
| 165 | 3 | 3 | 238 | 0 | 5.7 | 1.10 | 1.65 | 0.60 | 0.250 | 27 | 5 | 27.0 |
| 166 | 3 | 3 | 243 | 0 | 3.0 | 0.25 | 1.20 | 0.60 | 0.300 | 20 | 6 | 20.0 |
| 167 | 3 | 3 | 248 | 0 | 5.0 | 1.05 | 0.95 | 0.30 | 0.150 | 32 | 6 | 32.0 |
| 168 | 3 | 3 | 255 | 0 | 3.3 | 0.50 | 0.85 | 0.45 | 0.200 | 21 | 6 | 21.0 |
| 169 | 3 | 3 | 262 | 0 | 3.1 | 0.35 | 0.90 | 0.45 | 0.200 | 20 | 5 | 20.0 |
| 170 | 3 | 4 | 269 | 0 | 5.6 | 1.35 | 1.05 | 0.30 | 0.150 | 33 | 10 | 33.0 |
| 171 | 3 | 4 | 274 | 0 | 8.3 | 1.65 | 2.40 | 0.65 | 0.350 | 41 | 13 | 41.0 |
| 172 | 3 | 4 | 280 | 0 | 5.7 | 1.05 | 1.85 | 0.70 | 0.300 | 24 | 4 | 24.0 |
| 173 | 3 | 4 | 285 | 0 | 7.7 | 1.60 | 1.85 | 0.45 | 0.200 | 34 | 6 | 34.0 |
| 174 | 3 | 4 | 290 | 0 | 3.7 | 0.40 | 1.30 | 0.85 | 0.350 | 22 | 5 | 22.0 |
| 175 | 3 | 4 | 295 | 0 | 3.5 | 0.30 | 1.65 | 0.75 | 0.350 | 22 | 6 | 22.0 |
| 176 | 3 | 4 | 300 | 0 | 3.9 | 0.40 | 1.10 | 0.45 | 0.150 | 21 | 5 | 21.0 |

Listing of  Ident (1990) + Observed (1991-97)                89
08:11 Thursday, October 15, 1998

| OBS | BLCK | PLOT | TAG | STATG | DBH94 | HRT94 | SAP94 | RAD10 94 | RAD05 94 | STMLN94 | CRNHT94 | CRNTP94 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 177 | 3 | 4 | 306 | 0 | 5.8 | 1.05 | 1.60 | 0.45 | 0.200 | 32 | 8 | 32.0 |
| 178 | 3 | 4 | 311 | 0 | 8.7 | 0.75 | 2.75 | 0.70 | 0.300 | 33 | 6 | 33.0 |
| 179 | 3 | 4 | 316 | 0 | 5.2 | 0.45 | 1.70 | 0.65 | 0.300 | 28 | 6 | 27.5 |
| 180 | 3 | 4 | 321 | 0 | 5.8 | 0.50 | 1.80 | 0.45 | 0.150 | 30 | 6 | 30.0 |
| 181 | 3 | 4 | 326 | 0 | 5.7 | 1.35 | 1.05 | 0.60 | 0.300 | 38 | 15 | 38.0 |
| 182 | 3 | 4 | 331 | 0 | 2.5 | 0.20 | 0.90 | 0.45 | 0.150 | 19 | 7 | 19.0 |
| 183 | 3 | 4 | 336 | 0 | 5.6 | 0.75 | 1.45 | 0.50 | 0.200 | 28 | 7 | 28.0 |
| 184 | 3 | 4 | 341 | 0 | 6.6 | 0.90 | 1.85 | 0.40 | 0.200 | 34 | 12 | 34.0 |
| 185 | 3 | 5 | 344 | 0 | 5.4 | 0.25 | 1.95 | 0.50 | 0.200 | 26 | 4 | 26.0 |
| 186 | 3 | 5 | 349 | 0 | 3.5 | 0.30 | 1.30 | 0.70 | 0.300 | 17 | 3 | 17.0 |
| 187 | 3 | 5 | 354 | 0 | 2.0 | 0.00 | 0.90 | 0.60 | 0.300 | 11 | 3 | 11.0 |
| 188 | 3 | 5 | 359 | 0 | 1.5 | 0.00 | 0.70 | 0.60 | 0.300 | 10 | 2 | 10.0 |
| 189 | 3 | 5 | 364 | 0 | 6.0 | 0.55 | 1.85 | 0.45 | 0.200 | 32 | 6 | 32.0 |
| 190 | 3 | 5 | 369 | 0 | 2.0 | 0.00 | 0.95 | 0.35 | 0.175 | 17 | 5 | 17.0 |
| 191 | 3 | 5 | 374 | 0 | 5.4 | 0.80 | 1.40 | 0.50 | 0.200 | 26 | 8 | 26.0 |
| 192 | 3 | 5 | 379 | 0 | 4.5 | 0.55 | 1.30 | 0.60 | 0.300 | 22 | 5 | 22.0 |
| 193 | 3 | 5 | 384 | 0 | 5.7 | 0.90 | 1.70 | 0.60 | 0.300 | 26 | 8 | 26.0 |
| 194 | 3 | 5 | 389 | 0 | 6.9 | 1.20 | 2.20 | 0.85 | 0.900 | 31 | 7 | 31.0 |
| 195 | 3 | 5 | 394 | 0 | 3.6 | 0.55 | 1.30 | 0.75 | 0.350 | 22 | 6 | 22.0 |
| 196 | 3 | 5 | 399 | 0 | 4.5 | 0.55 | 1.35 | 0.50 | 0.200 | 26 | 8 | 26.0 |
| 197 | 3 | 5 | 404 | 0 | 5.5 | 0.75 | 1.40 | 0.60 | 0.250 | 24 | 6 | 24.0 |
| 198 | 3 | 5 | 409 | 0 | 1.8 | 0.00 | 0.85 | 0.50 | 0.200 | 11 | 3 | 11.0 |
| 199 | 3 | 5 | 414 | 0 | 4.3 | 0.95 | 1.00 | 0.45 | 0.200 | 25 | 6 | 25.0 |
| 200 | 3 | 5 | 419 | 0 | 4.0 | 0.35 | 1.45 | 0.50 | 0.250 | 24 | 9 | 24.0 |
| 201 | 3 | 5 | 424 | 0 | 3.5 | 0.30 | 1.10 | 0.70 | 0.300 | 23 | 4 | 23.0 |
| 202 | 3 | 5 | 429 | 0 | 2.8 | 0.00 | 1.40 | 0.60 | 0.275 | 21 | 8 | 21.0 |
| 203 | 4 | 1 | 436 | 0 | 4.5 | 0.70 | 1.25 | 0.25 | 0.100 | 25 | 6 | 25.0 |
| 204 | 4 | 1 | 441 | 0 | 4.4 | 0.65 | 1.20 | 0.40 | 0.200 | 29 | 7 | 29.0 |
| 205 | 4 | 1 | 446 | 0 | 5.5 | 1.00 | 1.20 | 0.50 | 0.250 | 31 | 8 | 31.0 |
| 206 | 4 | 1 | 451 | 0 | 6.1 | 0.95 | 1.40 | 0.40 | 0.150 | 28 | 7 | 28.0 |
| 207 | 4 | 1 | 456 | 0 | 5.4 | 1.30 | 0.85 | 0.45 | 0.150 | 28 | 7 | 28.0 |
| 208 | 4 | 1 | 462 | 0 | 3.4 | 0.50 | 1.25 | 0.40 | 0.200 | 24 | 8 | 24.0 |
| 209 | 4 | 1 | 467 | 0 | 5.4 | 0.90 | 1.25 | 0.55 | 0.250 | 26 | 7 | 26.0 |
| 210 | 4 | 1 | 472 | 0 | 3.5 | 0.50 | 1.15 | 0.40 | 0.175 | 26 | 9 | 26.0 |
| 211 | 4 | 1 | 477 | 0 | 3.8 | 0.35 | 0.85 | 0.60 | 0.250 | 24 | 3 | 16.0 |
| 212 | 4 | 1 | 482 | 0 | 3.3 | 0.75 | 0.70 | 0.20 | 0.100 | 26 | 11 | 26.0 |
| 213 | 4 | 1 | 487 | 0 | 6.4 | 0.75 | 1.80 | 0.60 | 0.250 | 31 | 9 | 31.0 |
| 214 | 4 | 1 | 492 | 0 | 5.7 | 1.00 | 1.50 | 0.35 | 0.100 | 29 | 12 | 29.0 |
| 215 | 4 | 1 | 497 | 0 | 3.4 | 0.55 | 0.85 | 0.35 | 0.100 | 23 | 7 | 23.0 |
| 216 | 4 | 1 | 502 | 0 | 2.2 | 0.10 | 0.80 | 0.35 | 0.150 | 16 | 5 | 16.0 |
| 217 | 4 | 1 | 508 | 0 | 2.3 | 0.00 | 1.20 | 0.65 | 0.250 | 14 | 3 | 14.0 |
| 218 | 4 | 1 | 513 | 0 | 5.2 | 0.80 | 1.75 | 0.80 | 0.350 | 27 | 6 | 27.0 |
| 219 | 4 | 1 | 518 | 0 | 2.9 | 0.40 | 0.80 | 0.50 | 0.200 | 20 | 5 | 20.0 |
| 220 | 4 | 1 | 526 | 0 | 4.2 | 0.70 | 0.90 | 0.30 | 0.125 | 21 | 5 | 21.0 |

Listing of  Ident (1990) + Observed (1991-97)                90
08:11 Thursday, October 15, 1998

| OBS | BLCK | PLOT | TAG | STATG | DBH94 | HRT94 | SAP94 | RAD10 94 | RAD05 94 | STMLN94 | CRNHT94 | CRNTP94 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 | 4 | 1 | 531 | 0 | 3.6 | 0.35 | 1.20 | 0.55 | 0.25 | 24 | 7 | 24 |
| 222 | 4 | 1 | 536 | 0 | 5.1 | 0.80 | 1.25 | 0.40 | 0.15 | 25 | 9 | 25 |
| 223 | 4 | 2 | 540 | 0 | 5.5 | 0.55 | 1.75 | 0.45 | 0.15 | 24 | 3 | 24 |
| 224 | 4 | 2 | 549 | 0 | 2.3 | 0.40 | 0.70 | 0.50 | 0.15 | 19 | 6 | 11 |
| 225 | 4 | 2 | 558 | 0 | 5.2 | 1.05 | 1.50 | 0.35 | 0.15 | 28 | 7 | 28 |
| 226 | 4 | 2 | 561 | 1 | . | . | . | . | . | . | . | . |
| 227 | 4 | 2 | 565 | 0 | 4.4 | 0.00 | 2.10 | 0.90 | 0.45 | 22 | 4 | 22 |
| 228 | 4 | 2 | 571 | 0 | 4.1 | 0.45 | 1.25 | 0.50 | 0.20 | 24 | 6 | 24 |
| 229 | 4 | 2 | 575 | 1 | . | . | . | . | . | . | . | . |
| 230 | 4 | 2 | 577 | 0 | 2.4 | 0.45 | 0.75 | 0.55 | 0.25 | 18 | 5 | 18 |
| 231 | 4 | 2 | 584 | 0 | 2.9 | 0.35 | 0.85 | 0.45 | 0.15 | 18 | 5 | 18 |
| 232 | 4 | 2 | 591 | 0 | 4.8 | 1.15 | 1.10 | 0.50 | 0.20 | 25 | 8 | 25 |
| 233 | 4 | 2 | 597 | 0 | 4.0 | 0.50 | 1.35 | 0.50 | 0.15 | 19 | 6 | 12 |
| 234 | 4 | 2 | 606 | 0 | 6.3 | 1.95 | 0.95 | 0.60 | 0.25 | 23 | 6 | 23 |
| 235 | 4 | 2 | 612 | 0 | 3.5 | 0.25 | 1.20 | 0.40 | 0.25 | 22 | 7 | 22 |
| 236 | 4 | 2 | 618 | 0 | 3.0 | 0.40 | 0.90 | 0.45 | 0.20 | 20 | 4 | 20 |
| 237 | 4 | 2 | 626 | 0 | 3.0 | 0.40 | 0.80 | 0.40 | 0.20 | 19 | 6 | 19 |
| 238 | 4 | 2 | 631 | 0 | 1.9 | 0.30 | 0.50 | 0.30 | 0.10 | 13 | 4 | 10 |
| 239 | 4 | 2 | 635 | 1 | . | . | . | . | . | . | . | . |
| 240 | 4 | 2 | 638 | 0 | 3.6 | 0.25 | 1.15 | 0.45 | 0.25 | 20 | 5 | 20 |
| 241 | 4 | 2 | 646 | 0 | 3.5 | 0.35 | 1.05 | 0.45 | 0.20 | 19 | 7 | 19 |
| 242 | 4 | 3 | 651 | 0 | 5.8 | 0.90 | 1.55 | 0.80 | 0.40 | 28 | 8 | 28 |
| 243 | 4 | 3 | 653 | 0 | 4.3 | 0.45 | 1.65 | 0.85 | 0.40 | 22 | 5 | 22 |
| 244 | 4 | 3 | 658 | 0 | 3.5 | 0.40 | 1.00 | 0.65 | 0.30 | 19 | 3 | 19 |
| 245 | 4 | 3 | 663 | 0 | 5.1 | 0.65 | 1.25 | 0.55 | 0.25 | 26 | 4 | 26 |
| 246 | 4 | 3 | 668 | 0 | 2.1 | 0.00 | 0.90 | 0.50 | 0.25 | 14 | 4 | 14 |
| 247 | 4 | 3 | 673 | 0 | 3.0 | 0.15 | 1.20 | 0.60 | 0.30 | 21 | 7 | 21 |
| 248 | 4 | 3 | 678 | 0 | 4.0 | 0.55 | 1.50 | 0.70 | 0.35 | 22 | 6 | 22 |
| 249 | 4 | 3 | 684 | 0 | 4.1 | 0.55 | 1.15 | 0.70 | 0.40 | 23 | 6 | 23 |
| 250 | 4 | 3 | 689 | 0 | 4.4 | 0.40 | 1.80 | 0.80 | 0.40 | 22 | 5 | 22 |
| 251 | 4 | 3 | 695 | 0 | 4.4 | 1.55 | 1.35 | 0.85 | 0.30 | 20 | 5 | 13 |
| 252 | 4 | 3 | 700 | 0 | 3.3 | 0.15 | 1.15 | 0.45 | 0.15 | 17 | 6 | 17 |
| 253 | 4 | 3 | 705 | 0 | 4.4 | 0.65 | 1.15 | 0.60 | 0.25 | 24 | 10 | 24 |
| 254 | 4 | 3 | 710 | 0 | 3.0 | 0.20 | 1.15 | 0.60 | 0.20 | 16 | 5 | 16 |
| 255 | 4 | 3 | 715 | 0 | 3.7 | 0.45 | 1.10 | 0.50 | 0.15 | 20 | 6 | 20 |
| 256 | 4 | 3 | 720 | 0 | 3.2 | 0.45 | 0.95 | 0.70 | 0.30 | 17 | 6 | 17 |
| 257 | 4 | 3 | 725 | 0 | 4.6 | 0.45 | 1.50 | 0.65 | 0.25 | 22 | 4 | 22 |
| 258 | 4 | 3 | 730 | 0 | 5.4 | 0.70 | 1.30 | 0.50 | 0.25 | 25 | 6 | 25 |
| 259 | 4 | 3 | 735 | 0 | 2.9 | 0.55 | 0.85 | 0.75 | 0.35 | 19 | 4 | 19 |
| 260 | 4 | 3 | 740 | 0 | 4.6 | 0.70 | 1.05 | 0.60 | 0.30 | 22 | 7 | 22 |
| 261 | 4 | 3 | 745 | 0 | 5.0 | 0.50 | 1.50 | 0.75 | 0.30 | 23 | 5 | 23 |
| 262 | 4 | 3 | 750 | 0 | 6.3 | 0.80 | 2.45 | 1.20 | 0.45 | 23 | 4 | 23 |
| 263 | 4 | 3 | 755 | 0 | 3.6 | 0.40 | 1.40 | 0.85 | 0.40 | 20 | 6 | 20 |
| 264 | 4 | 3 | 760 | 0 | 2.5 | 0.00 | 1.10 | 0.75 | 0.30 | 15 | 4 | 15 |

Listing of  Ident (1990) + Observed (1991-97)          91
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | STAT94 | DBH94 | HRT94 | SAP94 | RAD1094 | RAD0594 | STMLN94 | CRNHT94 | CRNTP94 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 265 | 4 | 3 | 765 | 0 | 3.4 | 0.35 | 1.00 | 0.75 | 0.30 | 15 | 4 | 15.0 |
| 266 | 4 | 3 | 770 | 0 | 3.7 | 0.55 | 0.80 | 0.80 | 0.35 | 20 | 7 | 20.0 |
| 267 | 4 | 4 | 775 | 0 | 3.3 | 0.00 | 1.35 | 0.65 | 0.30 | 17 | 3 | 17.0 |
| 268 | 4 | 4 | 783 | 0 | 3.3 | 0.30 | 1.00 | 0.50 | 0.20 | 16 | 4 | 16.0 |
| 269 | 4 | 4 | 788 | 0 | 5.0 | 0.85 | 1.55 | 1.00 | 0.40 | 23 | 4 | 23.0 |
| 270 | 4 | 4 | 795 | 0 | 4.4 | 0.40 | 1.50 | 0.55 | 0.20 | 20 | 5 | 20.0 |
| 271 | 4 | 4 | 802 | 0 | 3.5 | 0.35 | 1.15 | 0.60 | 0.30 | 17 | 5 | 17.0 |
| 272 | 4 | 4 | 808 | 0 | 4.6 | 0.70 | 1.60 | 0.80 | 0.35 | 25 | 7 | 25.0 |
| 273 | 4 | 4 | 813 | 0 | 4.6 | 0.60 | 1.80 | 1.00 | 0.45 | 24 | 5 | 24.0 |
| 274 | 4 | 4 | 822 | 0 | 3.9 | 0.40 | 1.15 | 0.50 | 0.15 | 18 | 4 | 17.5 |
| 275 | 4 | 4 | 828 | 0 | 4.8 | 0.35 | 1.75 | 0.80 | 0.40 | 20 | 3 | 20.0 |
| 276 | 4 | 4 | 838 | 0 | 5.0 | 0.70 | 1.70 | 0.70 | 0.30 | 28 | 3 | 28.0 |
| 277 | 4 | 4 | 845 | 0 | 4.7 | 0.40 | 1.40 | 0.70 | 0.35 | 22 | 5 | 22.0 |
| 278 | 4 | 4 | 853 | 0 | 5.0 | 0.50 | 1.75 | 0.85 | 0.35 | 21 | 4 | 21.0 |
| 279 | 4 | 4 | 859 | 0 | 3.5 | 0.35 | 1.05 | 0.55 | 0.25 | 17 | 5 | 17.0 |
| 280 | 4 | 4 | 864 | 0 | 4.0 | 0.65 | 1.15 | 0.60 | 0.25 | 18 | 5 | 18.0 |
| 281 | 4 | 4 | 870 | 0 | 4.8 | 0.70 | 1.40 | 0.55 | 0.20 | 20 | 5 | 20.0 |
| 282 | 4 | 4 | 876 | 0 | 3.9 | 0.45 | 1.05 | 0.60 | 0.30 | 19 | 7 | 19.0 |
| 283 | 4 | 4 | 882 | 0 | 3.4 | 0.30 | 1.45 | 0.90 | 0.45 | 17 | 6 | 17.0 |
| 284 | 4 | 5 | 886 | 0 | 3.8 | 0.35 | 1.30 | 0.60 | 0.20 | 18 | 6 | 18.0 |
| 285 | 4 | 5 | 891 | 0 | 4.4 | 0.45 | 1.20 | 0.55 | 0.25 | 26 | 6 | 26.0 |
| 286 | 4 | 5 | 896 | 0 | 2.8 | 0.00 | 1.10 | 0.70 | 0.30 | 16 | 3 | 16.0 |
| 287 | 4 | 5 | 901 | 0 | 4.9 | 0.45 | 1.70 | 0.90 | 0.40 | 23 | 5 | 23.0 |
| 288 | 4 | 5 | 906 | 0 | 5.3 | 0.45 | 1.70 | 0.65 | 0.30 | 21 | 5 | 21.0 |
| 289 | 4 | 5 | 911 | 0 | 6.8 | 0.60 | 2.25 | 1.00 | 0.50 | 24 | 4 | 24.0 |
| 290 | 4 | 5 | 916 | 0 | 5.5 | 0.60 | 1.75 | 0.90 | 0.35 | 21 | 6 | 21.0 |
| 291 | 4 | 5 | 921 | 0 | 2.5 | 0.20 | 0.90 | 0.45 | 0.15 | 15 | 3 | 15.0 |
| 292 | 4 | 5 | 926 | 0 | 3.5 | 0.25 | 1.20 | 0.65 | 0.25 | 18 | 4 | 18.0 |
| 293 | 4 | 5 | 931 | 0 | 4.0 | 0.30 | 1.20 | 0.65 | 0.30 | 22 | 4 | 22.0 |
| 294 | 4 | 5 | 936 | 0 | 4.7 | 0.45 | 1.50 | 0.75 | 0.30 | 22 | 5 | 22.0 |
| 295 | 4 | 5 | 941 | 0 | 4.7 | 1.15 | 0.95 | 0.85 | 0.35 | 17 | 4 | 17.0 |
| 296 | 4 | 5 | 946 | 0 | 4.2 | 0.20 | 1.60 | 0.80 | 0.40 | 20 | 3 | 20.0 |
| 297 | 4 | 5 | 951 | 0 | 8.1 | 0.85 | 2.05 | 0.80 | 0.40 | 28 | 4 | 28.0 |
| 298 | 4 | 5 | 956 | 0 | 2.1 | 0.00 | 0.85 | 0.55 | 0.25 | 11 | 4 | 11.0 |
| 299 | 4 | 5 | 961 | 0 | 3.0 | 0.25 | 1.00 | 0.60 | 0.20 | 13 | 3 | 13.0 |
| 300 | 4 | 5 | 966 | 0 | 3.1 | 0.40 | 0.95 | 0.70 | 0.35 | 15 | 5 | 15.0 |
| 301 | 4 | 5 | 971 | 0 | 2.9 | 0.00 | 1.15 | 0.70 | 0.35 | 15 | 4 | 15.0 |
| 302 | 4 | 5 | 976 | 0 | 1.8 | 0.00 | 0.85 | 0.55 | 0.25 | 11 | 4 | 11.0 |
| 303 | 4 | 5 | 981 | 0 | 2.2 | 0.00 | 0.75 | 0.40 | 0.20 | 11 | 3 | 11.0 |
| 304 | 4 | 5 | 986 | 0 | 3.7 | 0.25 | 1.65 | 0.70 | 0.35 | 17 | 4 | 17.0 |
| 305 | 4 | 5 | 991 | 0 | 3.1 | 0.00 | 0.40 | 0.70 | 0.25 | 16 | 4 | 16.0 |

Listing of  Ident (1990) + Observed (1991-97)          92
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TAG | STAT95 | DBH95 | HRT95 | SAP95 | RAD1095 | RAD0595 | STMLN95 | CRNHT95 | CRNTP95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 4 | 0 | 6.7 | 2.30 | 0.85 | 0.20 | 0.35 | 38.0 | 38.0 | 21.0 |
| 2 | 1 | 1 | 14 | 0 | 7.0 | 1.50 | 1.25 | 0.15 | 0.30 | 38.0 | 38.0 | 22.0 |
| 3 | 1 | 1 | 22 | 0 | 9.6 | 1.35 | 2.95 | 0.05 | 0.20 | 42.0 | 42.0 | 11.0 |
| 4 | 1 | 1 | 27 | 0 | 8.9 | 2.20 | 1.85 | 0.15 | 0.30 | 38.0 | 38.0 | 16.0 |
| 5 | 1 | 1 | 34 | 0 | 6.9 | 1.75 | 1.60 | 0.15 | 0.30 | 38.0 | 38.0 | 20.0 |
| 6 | 1 | 1 | 42 | 0 | 7.2 | 2.25 | 1.60 | 0.15 | 0.30 | 39.0 | 39.0 | 22.0 |
| 7 | 1 | 1 | 47 | 0 | 7.7 | 1.75 | 2.00 | 0.15 | 0.25 | 33.0 | 33.0 | 23.0 |
| 8 | 1 | 1 | 55 | 0 | 6.3 | 2.20 | 1.85 | 0.10 | 0.30 | 31.0 | 31.0 | 19.0 |
| 9 | 1 | 1 | 61 | 0 | 7.7 | 2.65 | 1.30 | 0.20 | 0.35 | 32.0 | 32.0 | 12.0 |
| 10 | 1 | 1 | 67 | 0 | 9.7 | 2.90 | 1.80 | 0.25 | 0.45 | 46.0 | 46.0 | 25.0 |
| 11 | 1 | 2 | 77 | 0 | 8.3 | 1.55 | 2.15 | 0.15 | 0.25 | 35.2 | 35.2 | 26.0 |
| 12 | 1 | 2 | 84 | 0 | 7.2 | 2.50 | 1.60 | 0.20 | 0.35 | 39.0 | 39.0 | 20.0 |
| 13 | 1 | 2 | 95 | 0 | 7.7 | 2.45 | 1.10 | 0.15 | 0.25 | 42.0 | 42.0 | 22.0 |
| 14 | 1 | 2 | 102 | 0 | 7.6 | 1.20 | 2.05 | 0.20 | 0.30 | 40.0 | 40.0 | 22.0 |
| 15 | 1 | 2 | 115 | 0 | 7.1 | 1.10 | 2.05 | 0.05 | 0.15 | 41.0 | 41.0 | 26.0 |
| 16 | 1 | 2 | 121 | 0 | 6.7 | 0.65 | 2.90 | 0.05 | 0.15 | 34.0 | 29.0 | 16.0 |
| 17 | 1 | 2 | 133 | 0 | 8.7 | 1.25 | 2.35 | 0.10 | 0.25 | 42.0 | 42.0 | 22.0 |
| 18 | 1 | 2 | 141 | 0 | 7.0 | 1.05 | 1.85 | 0.10 | 0.20 | 33.3 | 33.3 | 16.0 |
| 19 | 1 | 2 | 150 | 0 | 7.3 | 1.65 | 1.90 | 0.15 | 0.30 | 37.2 | 37.2 | 16.0 |
| 20 | 1 | 2 | 158 | 0 | 7.1 | 1.55 | 1.25 | 0.15 | 0.25 | 40.9 | 40.9 | 22.0 |
| 21 | 1 | 3 | 168 | 0 | 4.9 | 1.00 | 1.15 | 0.25 | 0.15 | 34.0 | 34.0 | 24.0 |
| 22 | 1 | 3 | 173 | 0 | 5.9 | 1.50 | 1.55 | 0.15 | 0.30 | 42.0 | 42.0 | 27.0 |
| 23 | 1 | 3 | 178 | 0 | 5.4 | 1.25 | 0.90 | 0.10 | 0.20 | 32.2 | 32.2 | 15.0 |
| 24 | 1 | 3 | 185 | 0 | 6.5 | 1.10 | 1.40 | 0.10 | 0.20 | 34.0 | 34.0 | 18.0 |
| 25 | 1 | 3 | 186 | 2 | 6.5 | 1.85 | 1.25 | 0.10 | 0.25 | 38.0 | . | . |
| 26 | 1 | 3 | 192 | 0 | 6.2 | 1.25 | 1.30 | 0.10 | 0.20 | 36.0 | 36.0 | 23.0 |
| 27 | 1 | 3 | 197 | 0 | 9.3 | 1.25 | 2.45 | 0.10 | 0.25 | 43.0 | 43.0 | 22.0 |
| 28 | 1 | 3 | 203 | 0 | 6.2 | 1.55 | 1.15 | 0.15 | 0.30 | 35.0 | 35.0 | 23.0 |
| 29 | 1 | 3 | 210 | 1 | 6.2 | 1.55 | 1.40 | 0.10 | 0.20 | 31.3 | 31.3 | 23.0 |
| 30 | 1 | 3 | 212 | 0 | 6.9 | 2.15 | 0.95 | 0.20 | 0.35 | 43.0 | 43.0 | 25.0 |
| 31 | 1 | 3 | 218 | 0 | 7.3 | 1.10 | 1.90 | 0.15 | 0.30 | 38.9 | 38.9 | 24.0 |
| 32 | 1 | 3 | 224 | 0 | 5.7 | 1.85 | 0.75 | 0.15 | 0.25 | 34.7 | 34.7 | 24.0 |
| 33 | 1 | 3 | 228 | 0 | 4.7 | 2.00 | 0.40 | 0.10 | 0.25 | 36.9 | 36.9 | 25.0 |
| 34 | 1 | 3 | 233 | 0 | 5.5 | 1.45 | 0.85 | 0.10 | 0.20 | 38.9 | 38.9 | 23.0 |
| 35 | 1 | 4 | 237 | 2 | 6.4 | 1.40 | 1.60 | 0.10 | 0.15 | 38.0 | . | . |
| 36 | 1 | 4 | 239 | 0 | 6.4 | 0.65 | 1.00 | 0.40 | 0.65 | 36.0 | 36.0 | 23.0 |
| 37 | 1 | 4 | 245 | 0 | 6.8 | 1.50 | 1.85 | 0.15 | 0.40 | 39.0 | 39.0 | 26.0 |
| 38 | 1 | 4 | 250 | 0 | 6.0 | 0.40 | 2.25 | 0.15 | 0.25 | 37.0 | 37.0 | 16.0 |
| 39 | 1 | 4 | 256 | 0 | 6.6 | 0.75 | 1.25 | 0.05 | 0.15 | 41.0 | 44.0 | 24.0 |
| 40 | 1 | 4 | 262 | 0 | 6.0 | 1.00 | 0.90 | 0.05 | 0.10 | 30.5 | 30.5 | 19.2 |
| 41 | 1 | 4 | 268 | 0 | 3.0 | 0.75 | 1.75 | 0.10 | 0.15 | 31.9 | 31.9 | 22.0 |
| 42 | 1 | 4 | 275 | 0 | 7.4 | 1.75 | 1.50 | 0.10 | 0.20 | 40.9 | 40.9 | 23.0 |
| 43 | 1 | 4 | 281 | 0 | 9.4 | 1.85 | 2.00 | 0.15 | 0.25 | 41.6 | 41.4 | 22.0 |
| 44 | 1 | 4 | 287 | 0 | 6.4 | 1.30 | 1.50 | 0.20 | 0.30 | 38.2 | 38.2 | 28.0 |

Listing of  Ident (1990) + Observed (1991-97)          93
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TTAG | STAT95 | DBH95 | HRT95 | SAP95 | RAD095 | RAD195 | STMLN95 | CRNHT95 | CRNTP95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 1 | 4 | 292 | 0 | 8.1 | 1.90 | 1.25 | 0.15 | 0.25 | 41.0 | 41.0 | 24.0 |
| 46 | 1 | 4 | 297 | 0 | 9.0 | 2.65 | 1.00 | 0.25 | 0.40 | 40.9 | 41.0 | 21.0 |
| 47 | 1 | 4 | 304 | 0 | 6.0 | 1.25 | 1.50 | 0.20 | 0.35 | 39.0 | 39.0 | 26.0 |
| 48 | 1 | 4 | 310 | 0 | 7.6 | 2.10 | 1.55 | 0.40 | 0.60 | 39.0 | 39.0 | 23.0 |
| 49 | 1 | 4 | 316 | 0 | 8.8 | 1.25 | 2.25 | 0.25 | 0.40 | 42.0 | 42.0 | 33.0 |
| 50 | 1 | 4 | 321 | 0 | 7.7 | 1.50 | 2.10 | 0.20 | 0.35 | 38.0 | 38.0 | 26.0 |
| 51 | 1 | 4 | 326 | 0 | 9.1 | 1.75 | 2.10 | 0.20 | 0.40 | 45.0 | 43.0 | 23.0 |
| 52 | 2 | 1 | 335 | 0 | 6.1 | 1.15 | 1.35 | 0.25 | 0.45 | 32.3 | 32.3 | 18.1 |
| 53 | 2 | 1 | 349 | 0 | 7.4 | 1.05 | 1.75 | 0.25 | 0.40 | 38.3 | 38.3 | 27.0 |
| 54 | 2 | 1 | 361 | 0 | 5.9 | 1.05 | 1.60 | 0.20 | 0.35 | 29.6 | 29.6 | 12.1 |
| 55 | 2 | 1 | 369 | 0 | 4.1 | 0.75 | 1.30 | 0.30 | 0.55 | 27.2 | 27.2 | 13.0 |
| 56 | 2 | 1 | 376 | 0 | 5.8 | 0.90 | 1.75 | 0.20 | 0.40 | 31.8 | 331.8 | 20.9 |
| 57 | 2 | 1 | 384 | 0 | 6.5 | 1.10 | 1.85 | 0.50 | 0.65 | 33.6 | 33.6 | 15.0 |
| 58 | 2 | 1 | 394 | 0 | 4.2 | 0.90 | 1.15 | 0.35 | 0.40 | 31.3 | 31.3 | 19.1 |
| 59 | 2 | 1 | 406 | 0 | 8.5 | 1.35 | 2.00 | 0.30 | 0.45 | 39.7 | 39.9 | 11.5 |
| 60 | 2 | 1 | 415 | 0 | 6.2 | 0.95 | 1.30 | 0.20 | 0.25 | 34.4 | 34.4 | 16.5 |
| 61 | 2 | 1 | 427 | 0 | 7.1 | 1.15 | 1.65 | 0.30 | 0.40 | 34.3 | 34.3 | 19.7 |
| 62 | 2 | 1 | 435 | 0 | 5.6 | 1.60 | 2.10 | 0.25 | 0.40 | 44.6 | 44.6 | 29.7 |
| 63 | 2 | 1 | 443 | 0 | 7.0 | 0.85 | 1.70 | 0.25 | 0.40 | 32.0 | 32.0 | 17.5 |
| 64 | 2 | 1 | 454 | 0 | 6.6 | 1.20 | 1.60 | 0.40 | 0.65 | 33.6 | 33.6 | 18.7 |
| 65 | 2 | 1 | 461 | 0 | 7.0 | 1.40 | 1.80 | 0.35 | 0.55 | 35.8 | 35.8 | 15.6 |
| 66 | 2 | 1 | 468 | 0 | 5.9 | 0.85 | 1.10 | 0.25 | 0.40 | 39.7 | 39.7 | 13.2 |
| 67 | 2 | 2 | 478 | 0 | 6.0 | 1.45 | 1.60 | 0.30 | 0.45 | 35.1 | 35.1 | 17.5 |
| 68 | 2 | 2 | 484 | 0 | 6.3 | 1.15 | 1.45 | 0.30 | 0.45 | 35.6 | 35.6 | 25.9 |
| 69 | 2 | 2 | 491 | 0 | 6.3 | 1.15 | 1.35 | 0.25 | 0.40 | 34.2 | 34.2 | 23.5 |
| 70 | 2 | 2 | 496 | 0 | 6.5 | 0.90 | 1.70 | 0.40 | 0.60 | 41.4 | 41.4 | 18.7 |
| 71 | 2 | 2 | 503 | 0 | . | 0.90 | 1.15 | 0.50 | 0.70 | . | . | . |
| 72 | 2 | 2 | 504 | 2 | 5.8 | 1.55 | 1.45 | 0.20 | 0.30 | 47.0 | . | . |
| 73 | 2 | 2 | 511 | 0 | 6.5 | 1.10 | 1.50 | 0.25 | 0.45 | 40.4 | 40.4 | 23.4 |
| 74 | 2 | 2 | 520 | 0 | 7.8 | 0.95 | 1.25 | 0.15 | 0.25 | 45.8 | 45.8 | 25.0 |
| 75 | 2 | 2 | 525 | 0 | 6.8 | 1.00 | 1.60 | 0.30 | 0.40 | 44.2 | 44.2 | 23.0 |
| 76 | 2 | 2 | 536 | 0 | 6.8 | 1.25 | 1.25 | 0.20 | 0.25 | 39.5 | 39.5 | 24.5 |
| 77 | 2 | 2 | 545 | 0 | 5.8 | 1.15 | 1.50 | 0.10 | 0.15 | 32.7 | 32.7 | 16.0 |
| 78 | 2 | 2 | 555 | 0 | 6.2 | 1.35 | 1.40 | 0.25 | 0.40 | 34.5 | 34.5 | 18.3 |
| 79 | 2 | 2 | 563 | 0 | 5.5 | 0.80 | 1.10 | 0.20 | 0.45 | 31.5 | 31.5 | 17.2 |
| 80 | 2 | 2 | 570 | 0 | 6.4 | 1.40 | 1.75 | 0.15 | 0.20 | 38.2 | 38.2 | 18.7 |
| 81 | 2 | 2 | 577 | 0 | 4.1 | 0.50 | 1.05 | 0.20 | 0.25 | 29.5 | 29.5 | 22.0 |
| 82 | 2 | 2 | 584 | 0 | 5.4 | 0.70 | 1.50 | 0.15 | 0.20 | 32.6 | 32.6 | 24.1 |
| 83 | 2 | 2 | 591 | 0 | 7.4 | 0.80 | 1.55 | 0.15 | 0.40 | 40.2 | 40.2 | 24.1 |
| 84 | 2 | 2 | 600 | 1 | 7.0 | 1.25 | 1.90 | 0.05 | 0.10 | 37.3 | 37.3 | 23.7 |
| 85 | 2 | 2 | 608 | 0 | 5.7 | 0.65 | 1.15 | 0.15 | 0.30 | 37.1 | 37.1 | 24.6 |
| 86 | 2 | 2 | 619 | 0 | 4.9 | 0.75 | 1.25 | 0.25 | 0.40 | 36.0 | 36.0 | 24.4 |
| 87 | 2 | 3 | 628 | 0 | 8.5 | 1.65 | 2.25 | 0.35 | 0.40 | 37.6 | 37.6 | 14.0 |
| 88 | 2 | 3 | 636 | 0 | 7.2 | 1.65 | 2.20 | 0.25 | 0.35 | 35.1 | 35.1 | 20.4 |

Listing of  Ident (1990) + Observed (1991-97)          94
08:11 Thursday, October 15, 1998

| OBS | BLOCK | PLOT | TTAG | STAT95 | DBH95 | HRT95 | SAP95 | RAD095 | RAD195 | STMLN95 | CRNHT95 | CRNTP95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 2 | 3 | 641 | 0 | 7.1 | 0.70 | 1.60 | 0.10 | 0.15 | 34.6 | 34.6 | 12.0 |
| 90 | 2 | 3 | 650 | 0 | 7.3 | 1.00 | 1.70 | 0.25 | 0.35 | 35.0 | 35.0 | 12.4 |
| 91 | 2 | 3 | 655 | 0 | 8.8 | 1.55 | 3.00 | 0.15 | 0.20 | 41.7 | 41.7 | 23.0 |
| 92 | 2 | 3 | 660 | 0 | 7.2 | 1.30 | 1.55 | 0.30 | 0.40 | 39.6 | 39.6 | 22.3 |
| 93 | 2 | 3 | 666 | 0 | 6.6 | 1.60 | 1.60 | 0.20 | 0.35 | 37.5 | 37.5 | 17.7 |
| 94 | 2 | 3 | 671 | 0 | 5.2 | 0.80 | 1.65 | 0.10 | 0.15 | 33.7 | 33.7 | 21.0 |
| 95 | 2 | 3 | 680 | 0 | 7.3 | 0.95 | 2.05 | 0.25 | 0.40 | 37.3 | 37.3 | 13.7 |
| 96 | 2 | 3 | 699 | 0 | 6.1 | 0.90 | 2.00 | 0.30 | 0.50 | 35.0 | 35.0 | 21.1 |
| 97 | 2 | 3 | 706 | 0 | 6.4 | 0.80 | 2.00 | 0.40 | 0.50 | 32.5 | 32.5 | 20.6 |
| 98 | 2 | 3 | 716 | 0 | 6.1 | 1.35 | 1.50 | 0.20 | 0.35 | 29.5 | 29.5 | 13.6 |
| 99 | 2 | 3 | 723 | 0 | 8.2 | 1.70 | 1.25 | 0.25 | 0.35 | 39.4 | 39.4 | 20.5 |
| 100 | 2 | 3 | 731 | 0 | 8.0 | 1.65 | 1.95 | 0.15 | 0.20 | 37.2 | 37.2 | 22.8 |
| 101 | 2 | 3 | 740 | 0 | 4.4 | 0.80 | 1.00 | 0.25 | 0.35 | 28.3 | 28.3 | 20.0 |
| 102 | 2 | 4 | 745 | 0 | 6.1 | 1.30 | 1.00 | 0.30 | 0.45 | 33.8 | 33.8 | 10.0 |
| 103 | 2 | 4 | 753 | 0 | 5.3 | 0.95 | 1.30 | 0.20 | 0.35 | 31.0 | 31.0 | 13.5 |
| 104 | 2 | 4 | 759 | 0 | 5.1 | 1.20 | 1.10 | 0.20 | 0.25 | 36.8 | 36.8 | 23.7 |
| 105 | 2 | 4 | 768 | 0 | 5.4 | 1.50 | 0.95 | 0.20 | 0.35 | 32.4 | 32.4 | 21.4 |
| 106 | 2 | 4 | 773 | 0 | 6.4 | 1.10 | 1.35 | 0.20 | 0.30 | 35.0 | 35.0 | 19.4 |
| 107 | 2 | 4 | 779 | 0 | 6.9 | 1.10 | 1.10 | 0.15 | 0.25 | 28.6 | 28.6 | 14.5 |
| 108 | 2 | 4 | 789 | 0 | 6.1 | 0.95 | 1.25 | 0.20 | 0.40 | 34.9 | 34.9 | 22.7 |
| 109 | 2 | 4 | 794 | 0 | 5.2 | 0.90 | 1.30 | 0.30 | 0.35 | 32.0 | 32.0 | 12.0 |
| 110 | 2 | 4 | 800 | 0 | 3.8 | 0.75 | 1.00 | 0.35 | 0.45 | 23.1 | 23.1 | 16.1 |
| 111 | 2 | 4 | 810 | 0 | 4.8 | 1.00 | 1.25 | 0.15 | 0.20 | 33.1 | 33.1 | 18.8 |
| 112 | 2 | 4 | 819 | 0 | 6.7 | 1.30 | 1.90 | 0.25 | 0.35 | 39.4 | 39.4 | 22.8 |
| 113 | 2 | 4 | 826 | 0 | 6.1 | 1.40 | 1.25 | 0.25 | 0.40 | 38.1 | 38.1 | 18.5 |
| 114 | 2 | 4 | 831 | 0 | 4.9 | 1.00 | 1.05 | 0.35 | 0.50 | 29.6 | 29.6 | 18.3 |
| 115 | 2 | 4 | 836 | 0 | 5.4 | 1.25 | 1.35 | 0.40 | 0.50 | 33.8 | 33.8 | 14.1 |
| 116 | 2 | 4 | 842 | 0 | 7.9 | 1.20 | 1.85 | 0.20 | 0.40 | 39.4 | 39.4 | 20.0 |
| 117 | 3 | 1 | 5 | 0 | 8.8 | 2.25 | 1.65 | 0.45 | 0.65 | 37.0 | 37.0 | 6.0 |
| 118 | 3 | 1 | 11 | 0 | 7.6 | 2.15 | 1.20 | 0.35 | 0.50 | 35.0 | 35.0 | 9.0 |
| 119 | 3 | 1 | 16 | 0 | 5.3 | 1.55 | 0.80 | 0.40 | 0.60 | 34.0 | 34.0 | 6.0 |
| 120 | 3 | 1 | 22 | 0 | 3.6 | 1.50 | 0.40 | 0.35 | 0.65 | 25.0 | 25.0 | 10.0 |
| 121 | 3 | 1 | 27 | 0 | 3.6 | 1.25 | 0.50 | 0.40 | 0.80 | 21.0 | 21.0 | 4.0 |
| 122 | 3 | 1 | 34 | 0 | 3.9 | 1.30 | 0.50 | 0.40 | 0.75 | 24.0 | 24.0 | 4.0 |
| 123 | 3 | 1 | 39 | 0 | 5.6 | 1.60 | 1.00 | 0.30 | 0.45 | 25.0 | 25.0 | 3.0 |
| 124 | 3 | 1 | 44 | 0 | 8.1 | 2.50 | 1.65 | 0.30 | 0.40 | 37.0 | 37.0 | 5.0 |
| 125 | 3 | 1 | 50 | 0 | 5.3 | 1.60 | 0.50 | 0.35 | 0.60 | 27.0 | 27.0 | 5.0 |
| 126 | 3 | 1 | 56 | 0 | 3.3 | 1.00 | 0.40 | 0.30 | 0.60 | 20.0 | 20.0 | 5.0 |
| 127 | 3 | 1 | 61 | 0 | 4.0 | 1.10 | 0.80 | 0.25 | 0.45 | 24.0 | 24.0 | 4.0 |
| 128 | 3 | 1 | 67 | 0 | 5.1 | 1.10 | 1.45 | 0.40 | 0.75 | 24.0 | 24.0 | 2.0 |
| 129 | 3 | 2 | 73 | 0 | 3.0 | 0.40 | 1.10 | 0.45 | 0.75 | 14.0 | 14.0 | 2.0 |
| 130 | 3 | 2 | 78 | 0 | 7.9 | 1.75 | 1.10 | 0.35 | 0.50 | 30.0 | 30.0 | 6.0 |
| 131 | 3 | 2 | 83 | 0 | 6.4 | 1.75 | 1.25 | 0.25 | 0.50 | 13.0 | 17.0 | 3.0 |
| 132 | 3 | 2 | 88 | 0 | 2.5 | 1.00 | 0.25 | 0.40 | 0.75 | 19.0 | 19.0 | 2.0 |

| OBS | BLOCK | PLOT | TAG | STAT95 | DBH95 | HRT95 | SAP95 | RAD095 | RAD195 | STMLN95 | CRNHT95 | CRNTP95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133 | 3 | 2 | 93 | 0 | 2.0 | 1.10 | 0.25 | 0.35 | 0.50 | 13 | 13 | 4 |
| 134 | 3 | 2 | 99 | 0 | 7.1 | 2.00 | 1.10 | 0.25 | 0.40 | 37 | 37 | 6 |
| 135 | 3 | 2 | 105 | 0 | 1.7 | 0.50 | 0.25 | 0.25 | 0.45 | 11 | 11 | 1 |
| 136 | 3 | 2 | 110 | 0 | 4.6 | 1.75 | 0.65 | 0.35 | 0.70 | 32 | 32 | 6 |
| 137 | 3 | 2 | 115 | 0 | 3.5 | 0.50 | 1.10 | 0.35 | 0.65 | 19 | 15 | 3 |
| 138 | 3 | 2 | 120 | 0 | 2.3 | 0.75 | 1.00 | 0.35 | 0.60 | 16 | 16 | 3 |
| 139 | 3 | 2 | 125 | 0 | 3.3 | 1.35 | 0.30 | 0.40 | 0.70 | 26 | 26 | 4 |
| 140 | 3 | 2 | 130 | 0 | 7.3 | 1.40 | 1.90 | 0.40 | 0.75 | 31 | 31 | 7 |
| 141 | 3 | 2 | 135 | 0 | 6.9 | 2.00 | 1.25 | 0.40 | 0.75 | 32 | 32 | 8 |
| 142 | 3 | 2 | 140 | 0 | 5.0 | 1.65 | 1.00 | 0.25 | 0.50 | 31 | 31 | 8 |
| 143 | 3 | 2 | 145 | 0 | 6.5 | 1.70 | 1.05 | 0.35 | 0.65 | 41 | 40 | 7 |
| 144 | 3 | 2 | 150 | 0 | 5.7 | 1.30 | 1.35 | 0.40 | 0.75 | 29 | 29 | 7 |
| 145 | 3 | 2. | 155 | 0 | 5.6 | 1.15 | 1.75 | 0.30 | 0.50 | 34 | 34 | 7 |
| 146 | 3 | 2 | 160 | 0 | 2.8 | 0.90 | 0.75 | 0.35 | 0.60 | 20 | 20 | 3 |
| 147 | 3 | 2 | 165 | 0 | 6.5 | 1.40 | 2.15 | 0.20 | 0.30 | 38 | 38 | 6 |
| 148 | 3 | 2 | 170 | 0 | 7.6 | 1.50 | 1.75 | 0.25 | 0.40 | 37 | 37 | 15 |
| 149 | 3 | 2 | 175 | 0 | 7.8 | 2.00 | 1.75 | 0.30 | 0.40 | 39 | 39 | 10 |
| 150 | 3 | 3 | 182 | 0 | 3.4 | 0.65 | 0.90 | 0.35 | 0.50 | 19 | 19 | 6 |
| 151 | 3 | 3 | 188 | 0 | 8.6 | 1.75 | 1.65 | 0.30 | 0.60 | 37 | 37 | 11 |
| 152 | 3 | 3 | 197 | 0 | 4.4 | 1.90 | 0.35 | 0.40 | 0.65 | 22 | 22 | 3 |
| 153 | 3 | 3 | 203 | 0 | 4.6 | 1.10 | 0.75 | 0.40 | 0.70 | 26 | 26 | 5 |
| 154 | 3 | 3 | 208 | 0 | 6.0 | 2.30 | 0.85 | 0.40 | 0.75 | 36 | 36 | 4 |
| 155 | 3 | 3 | 215 | 0 | 6.1 | 1.05 | 0.85 | 0.35 | 0.60 | 31 | 30 | 7 |
| 156 | 3 | 3 | 220 | 0 | 4.9 | 0.90 | 0.65 | 0.35 | 0.55 | 33 | 33 | 10 |
| 157 | 3 | 3 | 227 | 0 | 7.7 | 1.80 | 1.35 | 0.35 | 0.60 | 38 | 37 | 5 |
| 158 | 3 | 3 | 234 | 1 | 3.5 | 0.50 | 1.05 | 0.20 | 0.40 | 19 | 14 | 3 |
| 159 | 3 | 3 | 239 | 0 | 4.9 | 1.50 | 0.85 | 0.25 | 0.45 | 25 | 25 | 6 |
| 160 | 3 | 3 | 244 | 0 | 5.5 | 1.50 | 0.60 | 0.30 | 0.50 | 29 | 27 | 6 |
| 161 | 3 | 3 | 250 | 0 | 5.6 | 1.75 | 0.60 | 0.30 | 0.60 | 26 | 26 | 3 |
| 162 | 3 | 3 | 257 | 0 | 4.2 | 1.05 | 0.85 | 0.30 | 0.55 | 22 | 22 | 5 |
| 163 | 3 | 3 | 264 | 0 | 6.7 | 1.15 | 1.90 | 0.35 | 0.70 | 32 | 32 | 6 |
| 164 | 3 | 4 | 270 | 0 | 8.1 | 2.05 | 1.00 | 0.25 | 0.45 | 34 | 34 | 9 |
| 165 | 3 | 4 | 276 | 0 | 8.1 | 1.40 | 1.50 | 0.30 | 0.45 | 39 | 39 | 10 |
| 166 | 3 | 4 | 281 | 0 | 3.6 | 1.25 | 0.50 | 0.35 | 0.65 | 24 | 24 | 4 |
| 167 | 3 | 4 | 286 | 0 | 3.0 | 0.95 | 0.40 | 0.35 | 0.75 | 19 | 19 | 4 |
| 168 | 3 | 4 | 291 | 0 | 6.0 | 1.60 | 1.15 | 0.45 | 0.80 | 33 | 33 | 5 |
| 169 | 3 | 4 | 296 | 0 | 5.3 | 0.75 | 1.50 | 0.40 | 0.70 | 30 | 30 | 6 |
| 170 | 3 | 4 | 301 | 0 | 2.8 | 1.60 | 0.50 | 0.50 | 0.95 | 18 | 18 | 3 |
| 171 | 3 | 4 | 307 | 0 | 8.2 | 2.25 | 1.70 | 0.40 | 0.85 | 34 | 34 | 6 |
| 172 | 3 | 4 | 312 | 0 | 3.2 | 1.30 | 0.20 | 0.30 | 0.65 | 19 | 19 | 6 |
| 173 | 3 | 4 | 317 | 0 | 5.1 | 1.15 | 0.70 | 0.45 | 0.85 | 32 | 32 | 6 |
| 174 | 3 | 4 | 322 | 0 | 4.9 | 1.50 | 0.40 | 0.25 | 0.40 | 28 | 28 | 7 |
| 175 | 3 | 4 | 327 | 0 | 5.1 | 0.90 | 1.25 | 0.40 | 0.60 | 34 | 34 | 9 |
| 176 | 3 | 4 | 332 | 0 | 2.3 | 0.50 | 0.70 | 0.35 | 0.50 | 17 | 17 | 3 |

| OBS | BLOCK | PLOT | TAG | STAT95 | DBH95 | HRT95 | SAP95 | RAD095 | RAD195 | STMLN95 | CRNHT95 | CRNTP95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 177 | 3 | 4 | 337 | 0 | 10.5 | 2.90 | 1.70 | 0.45 | 0.65 | 42 | 42 | 4 |
| 178 | 3 | 5 | 342 | 0 | 6.2 | 1.60 | 0.80 | 0.40 | 0.70 | 28 | 28 | 7 |
| 179 | 3 | 5 | 345 | 0 | 9.0 | 3.20 | 0.40 | 0.45 | 0.90 | 37 | 37 | 4 |
| 180 | 3 | 5 | 350 | 0 | 5.8 | 1.75 | 1.00 | 0.40 | 0.70 | 32 | 32 | 5 |
| 181 | 3 | 5 | 355 | 0 | 4.6 | 1.00 | 1.15 | 0.50 | 0.95 | 22 | 22 | 3 |
| 182 | 3 | 5 | 360 | 0 | 3.2 | 0.75 | 0.55 | 0.50 | 0.85 | 19 | 19 | 4 |
| 183 | 3 | 5 | 365 | 0 | 4.9 | 0.75 | 1.35 | 0.35 | 0.60 | 25 | 25 | 4 |
| 184 | 3 | 5 | 370 | 0 | 6.9 | 1.75 | 0.65 | 0.45 | 0.85 | 36 | 36 | 2 |
| 185 | 3 | 5 | 375 | 0 | 6.0 | 1.40 | 1.00 | 0.30 | 0.70 | 26 | 26 | 4 |
| 186 | 3 | 5 | 380 | 0 | 5.0 | 1.75 | 0.90 | 0.40 | 0.75 | 26 | 26 | 5 |
| 187 | 3 | 5 | 385 | 0 | 5.7 | 1.60 | 0.85 | 0.45 | 0.75 | 28 | 28 | 6 |
| 188 | 3 | 5 | 390 | 0 | 5.0 | 1.00 | 1.25 | 0.45 | 0.75 | 27 | 27 | 4 |
| 189 | 3 | 5 | 395 | 0 | 6.3 | 0.80 | 2.50 | 0.30 | 0.55 | 23 | 23 | 4 |
| 190 | 3 | 5 | 400 | 0 | 3.3 | 0.60 | 1.05 | 0.35 | 0.55 | 23 | 23 | 6 |
| 191 | 3 | 5 | 405 | 0 | 2.6 | 0.45 | 0.80 | 0.30 | 0.60 | 19 | 19 | 4 |
| 192 | 3 | 5 | 410 | 0 | 2.7 | 0.85 | 0.85 | 0.40 | 0.80 | 19 | 19 | 3 |
| 193 | 3 | 5 | 415 | 0 | 4.9 | 1.50 | 0.75 | 0.30 | 0.60 | 28 | 28 | 6 |
| 194 | 3 | 5 | 420 | 0 | 7.0 | 1.55 | 0.95 | 0.45 | 0.95 | 29 | 29 | 8 |
| 195 | 3 | 5 | 425 | 0 | 5.2 | 0.75 | 1.70 | 0.45 | 0.85 | 27 | 27 | 7 |
| 196 | 3 | 5 | 430 | 0 | 6.4 | 1.20 | 1.50 | 0.50 | 0.95 | 28 | 28 | 4 |

Listing of  Ident (1990) + Observed (1991-97)                           97
08:11 Thursday, October 15, 1998

```
                                    R       R       S       C       C
                    S               A       A       T       R       R
          B         T     D     S   H       D       D       M       N       N
          L   P     A     B     A   R       O       1       L       T       H
       O  O   L   T T     H     P   T       5       0       N       P       T
       B  C   O   A 9     9     9   9       9       9       9       9       9
       S  K   T   G 7     7     7   7       7       7       7       7       7

       1  1   1     8 0  8.0  2.05 1.05  0.040   0.065    44      44      20
       2  1   1    17 0  7.9  1.65 2.15  0.140   0.230    42      42      21
       3  1   1    23 0  6.3  1.15 1.65  0.120   0.190    44      44      21
       4  1   1    29 0  8.7  1.75 2.45  0.105   0.195    49      49      27
       5  1   1    38 0  6.3  1.30 1.30  0.095   0.140    41      41      23
       6  1   1    43 0  7.9  1.40 1.30  0.070   0.120    44      44      24
       7  1   1    48 0  7.4  1.65 1.15  0.045   0.065    41      41      27
       8  1   1    57 0  7.0  1.45 1.50  0.140   0.235    42      42      24
       9  1   1    62 0  7.6  1.05 2.05  0.120   0.220    40      40      21
      10  1   1    70 0  7.7  1.30 2.75  0.255   0.230    44      44      23
      11  1   2    79 0  7.6  1.45 1.75  0.070   0.115    41      41      23
      12  1   2    87 0  7.2  1.45 1.30  0.060   0.090    42      42      27
      13  1   2    96 0  7.6  1.45 2.00  0.165   0.225    39      39      19
      14  1   2   106 0  6.3  1.05 1.60  0.065   0.090    42      25      20
      15  1   2   116 0  7.4  1.30 1.65  0.045   0.105    38      21       9
      16  1   2   124 0  7.3  1.65 1.75  0.090   0.195    38      35      27
      17  1   2   135 0  7.2  1.40 1.90  0.095   0.170    43      43      20
      18  1   2   143 0  6.3  1.10 1.55  0.055   0.115    36      20      13
      19  1   2   152 0  7.4  1.35 2.35  0.095   0.140    49      49      20
      20  1   2   159 0  6.8  1.25 1.70  0.065   0.105    37      37      19
      21  1   3   169 0  5.4  0.80 1.00  0.045   0.080    37      37      21
      22  1   3   174 0  6.3  1.15 1.80  0.050   0.105    38      38      26
      23  1   3   180 0  7.0  0.80 1.25  0.045   0.080    41      41      26
      24  1   3   187 0  6.2  1.25 1.55  0.050   0.085    31      31      14
      25  1   3   193 0  4.3  0.30 1.35  0.040   0.080    38      38      27
      26  1   3   198 0  8.4  0.70 1.50  0.060   0.135    46      46      19
      27  1   3   205 1  6.6  1.40 1.35  0.060   0.130    44      25      22
      28  1   3   210 1  6.2  0.65 1.40  0.065   0.105    41      25      23
      29  1   3   214 0  8.1  1.95 1.15  0.080   0.130    48      48      26
      30  1   3   218 1  7.2  1.05 1.90  0.065   0.120    41      25      22
      31  1   3   219 0  4.1  0.85 0.85    .       .      25      35      26
      32  1   3   224 0  5.5  0.65 1.00  0.030   0.070    44      44      27
      33  1   3   229 0  6.5  1.00 1.40  0.035   0.070    43      43      24
      34  1   3   234 0  6.6  1.35 1.40  0.040   0.070    45      45      26
      35  1   4   240 0  8.1  0.70 2.20  0.115   0.170    49      49      23
      36  1   4   246 0  7.3  1.60 1.30  0.060   0.105    46      32      28
      37  1   4   250 2  5.9   .    .    0.080   0.165    40       .       .
      38  1   4   251 0  8.0  1.30 1.35  0.090   0.150    47      47      26
      39  1   4   257 0  7.1  1.05 1.80  0.065   0.125    44      44      26
      40  1   4   263 0  6.2  1.05 1.30  0.070   0.125    43      43      27
      41  1   4   269 0  6.8  1.95 0.90  0.075   0.130    47      47      29
      42  1   4   276 2  7.6   .    .      .       .      41       .       .
      43  1   4   277 0  7.5  1.80 1.50  0.110   0.180    47      47      25
      44  1   4   282 0  7.8  1.60 1.40  0.070   0.105    52      52      29
```

Listing of  Ident (1990) + Observed (1991-97)                           98
08:11 Thursday, October 15, 1998

```
                                    R       R       S       C       C
                    S               A       A       T       R       R
          B         T     D     S   H       D       D       M       N       N
          L   P     A     B     A   R       O       1       L       T       H
       O  O   L   T T     H     P   T       5       0       N       P       T
       B  C   O   A 9     9     9   9       9       9       9       9       9
       S  K   T   G 7     7     7   7       7       7       7       7       7

      45  1   4   286 2  7.0   .    .    0.040   0.095    44       .       .
      46  1   4   288 0  6.3  0.95 0.85  0.115   0.190    39      39      24
      47  1   4   290 2  7.6   .    .    0.045   0.120    48       .       .
      48  1   4   293 0  7.1  1.25 1.30  0.050   0.090    44      44      24
      49  1   4   298 0  8.8  1.90 1.20  0.055   0.110    42      42      21
      50  1   4   305 0  7.3  1.55 1.35  0.080   0.130    41      41      20
      51  1   4   311 0  8.0  1.35 2.10  0.040   0.215    45      45      26
      52  1   4   317 0  7.6  1.50 2.15  0.090   0.155    48      30      22
      53  1   4   319 1  7.3  1.15 1.85  0.040   0.090    40      25      20
      54  1   4   322 0  8.0  0.95 1.65  0.055   0.105    47      30      26
      55  2   1   327 0  6.5  1.15 2.15    .       .      38      38      26
      56  2   1   341 0  5.9  1.15 1.40    .       .      36      36      21
      57  2   1   350 0  4.4  0.55 1.20  0.050   0.090    30      30      19
      58  2   1   363 0  5.9  1.25 1.55  0.050   0.070    31      31      19
      59  2   1   370 0  4.4  0.75 1.00  0.070   0.130    32      32      19
      60  2   1   377 0  4.5  0.90 1.20  0.040   0.095    33      33      17
      61  2   1   387 0  4.8  1.00 1.15  0.045   0.105    31      16      10
      62  2   1   396 0  4.3  0.75 1.15  0.030   0.060    32      17      13
      63  2   1   407 0  5.2  1.10 0.95    .       .      36      36      17
      64  2   1   416 0  8.1  1.50 2.15  0.080   0.155    39      39      16
      65  2   1   428 0  4.1  0.85 0.90  0.050   0.070    24      24      16
      66  2   1   436 0  7.0  0.85 1.65  0.030   0.150    40      40      24
      67  2   1   445 0  6.4  1.10 1.10  0.060   0.105    42      42      22
      68  2   1   455 0  6.1  1.15 1.45  0.065   0.080    41      41      20
      69  2   1   462 0  7.5  1.40 1.90  0.045   0.090    38      38      17
      70  2   1   470 0  6.0  0.90 1.10  0.055   0.120    41      26      17
      71  2   2   480 0  8.3  0.75 2.10  0.050   0.070    45      45      19
      72  2   2   486 0  5.5  1.35 1.30  0.045   0.090    34      34      14
      73  2   2   492 0  2.9  0.45 1.45    .       .      31      30      22
      74  2   2   497 0  4.2  0.75 1.10  0.030   0.055    32      32      17
      75  2   2   506 0  5.7  1.05 1.15  0.030   0.055    41      41      24
      76  2   2   512 0  6.8  1.10 1.85  0.065   0.085    40      40      26
      77  2   2   521 0  6.0  1.20 1.90  0.070   0.125    37      37      18
      78  2   2   526 0  7.9  1.30 1.85  0.100   0.145    49      49      25
      79  2   2   538 0  6.3  1.30 1.20  0.055   0.085    37      37      20
      80  2   2   547 0  6.0  0.80 1.40  0.020   0.040    40      40      23
      81  2   2   557 0  3.5  0.65 1.20  0.085   0.125    29      29      20
      82  2   2   564 0  6.8  0.90 1.80  0.050   0.080    36      36      22
      83  2   2   572 0  5.4  0.70 1.70  0.035   0.070    33      33      19
      84  2   2   579 0  7.0  1.65 1.90  0.060   0.105    42      42      19
      85  2   2   585 0  5.9  1.10 1.20  0.030   0.070    32      32      16
      86  2   2   592 0  4.4  0.60 1.05  0.045   0.070    28      28      15
      87  2   2   600 2  7.1   .    .    0.035   0.070    39       .       .
      88  2   2   603 0  7.1  1.90 1.55  0.065   0.100    35      35      21
```

| OBS | BLCK | PLOT | TAG | STAT | DBH97 | SAP97 | HR97 | RAD0597 | RAD1097 | STMLN97 | CRNTP97 | CRNHT97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 2 | 2 | 608 | 2 | 5.6 | . | . | 0.030 | 0.060 | 39 | . | . |
| 90 | 2 | 2 | 614 | 0 | 5.1 | 1.15 | 0.70 | 0.075 | 0.105 | 32 | 32 | 12 |
| 91 | 2 | 2 | 621 | 0 | 6.0 | 1.50 | 1.50 | . | . | 26 | 26 | 42 |
| 92 | 2 | 3 | 631 | 0 | 6.9 | 1.20 | 1.80 | 0.040 | 0.075 | 37 | 37 | 14 |
| 93 | 2 | 3 | 637 | 0 | 6.1 | 0.95 | 1.65 | 0.030 | 0.050 | 36 | 36 | 24 |
| 94 | 2 | 3 | 645 | 0 | 6.9 | 0.75 | 2.30 | 0.040 | 0.070 | 44 | 44 | 18 |
| 95 | 2 | 3 | 651 | 0 | 6.4 | 1.10 | 1.70 | 0.015 | 0.040 | 41 | 41 | 28 |
| 96 | 2 | 3 | 656 | 0 | 6.9 | 1.30 | 1.40 | 0.075 | 0.095 | 39 | 39 | 24 |
| 97 | 2 | 3 | 661 | 0 | 6.6 | 1.10 | 1.30 | 0.045 | 0.070 | 41 | 41 | 20 |
| 98 | 2 | 3 | 667 | 0 | 6.2 | 1.00 | 1.55 | . | . | 34 | 34 | 14 |
| 99 | 2 | 3 | 672 | 0 | 6.9 | 1.45 | 1.40 | . | . | 39 | 39 | 22 |
| 100 | 2 | 3 | 686 | 0 | 4.4 | 0.90 | 0.75 | 0.030 | 0.065 | 30 | 30 | 18 |
| 101 | 2 | 3 | 700 | 0 | 7.9 | 1.55 | 2.25 | 0.080 | 0.130 | 39 | 39 | 16 |
| 102 | 2 | 3 | 712 | 0 | 6.1 | 0.95 | 1.15 | . | . | 34 | 34 | 19 |
| 103 | 2 | 3 | 717 | 0 | 7.3 | 1.20 | 1.45 | 0.040 | 0.095 | 37 | 37 | 19 |
| 104 | 2 | 3 | 724 | 0 | 8.6 | 1.40 | 2.45 | 0.065 | 0.105 | 48 | 48 | 22 |
| 105 | 2 | 3 | 733 | 0 | 5.5 | 0.80 | 1.45 | 0.040 | 0.080 | 30 | 30 | 20 |
| 106 | 2 | 4 | 742 | 0 | 3.8 | 0.85 | 0.85 | 0.065 | 0.125 | 31 | 31 | 18 |
| 107 | 2 | 4 | 746 | 0 | 5.2 | 0.70 | 1.40 | 0.065 | 0.125 | 32 | 32 | 19 |
| 108 | 2 | 4 | 754 | 0 | 5.6 | 0.75 | 1.40 | 0.055 | 0.090 | 35 | 35 | 19 |
| 109 | 2 | 4 | 760 | 0 | 4.9 | 1.10 | 2.35 | 0.040 | 0.090 | 31 | 31 | 15 |
| 110 | 2 | 4 | 769 | 0 | 5.4 | 1.10 | 1.25 | 0.045 | 0.090 | 38 | 38 | 23 |
| 111 | 2 | 4 | 774 | 0 | 4.6 | 0.95 | 1.35 | 0.030 | 0.075 | 33 | 33 | 18 |
| 112 | 2 | 4 | 783 | 0 | 4.6 | 0.85 | 0.85 | 0.035 | 0.075 | 35 | 35 | 21 |
| 113 | 2 | 4 | 790 | 0 | 5.1 | 0.70 | 1.70 | 0.030 | 0.065 | 34 | 34 | 20 |
| 114 | 2 | 4 | 795 | 0 | 6.6 | 1.15 | 1.25 | 0.045 | 0.080 | 37 | 37 | 20 |
| 115 | 2 | 4 | 801 | 0 | 5.2 | 0.95 | 1.15 | 0.045 | 0.065 | 34 | 34 | 19 |
| 116 | 2 | 4 | 811 | 0 | 5.1 | 0.95 | 1.70 | 0.055 | 0.130 | 34 | 34 | 19 |
| 117 | 2 | 4 | 821 | 0 | 6.7 | 1.15 | 1.35 | 0.055 | 0.105 | 40 | 40 | 19 |
| 118 | 2 | 4 | 827 | 0 | 6.3 | 1.30 | 1.30 | 0.030 | 0.080 | 38 | 38 | 21 |
| 119 | 2 | 4 | 830 | 2 | 6.1 | . | . | 0.065 | 0.170 | 39 | . | . |
| 120 | 2 | 4 | 832 | 0 | 5.0 | 0.95 | 1.15 | 0.040 | 0.070 | 33 | 33 | 20 |
| 121 | 2 | 4 | 838 | 0 | 6.2 | 1.75 | 1.80 | 0.045 | 0.090 | 33 | 33 | 17 |
| 122 | 2 | 4 | 843 | 0 | 4.7 | 0.70 | 1.15 | 0.030 | 0.070 | 32 | 32 | 16 |
| 123 | 3 | 1 | 6 | 0 | 6.0 | 0.85 | 1.60 | 0.060 | 0.130 | 28 | 28 | 9 |
| 124 | 3 | 1 | 12 | 0 | 9.9 | 1.95 | 2.55 | 0.055 | 0.195 | 32 | 32 | 10 |
| 125 | 3 | 1 | 17 | 0 | 8.5 | 1.20 | 2.15 | 0.055 | 0.130 | 44 | 44 | 19 |
| 126 | 3 | 1 | 23 | 0 | 4.0 | 0.65 | 1.00 | 0.105 | 0.240 | 24 | 24 | 9 |
| 127 | 3 | 1 | 28 | 0 | 3.3 | 0.90 | 0.80 | 0.105 | 0.205 | 17 | 17 | 10 |
| 128 | 3 | 1 | 35 | 0 | 3.7 | 0.40 | 1.05 | 0.100 | 0.230 | 22 | 22 | 8 |
| 129 | 3 | 1 | 40 | 0 | 4.5 | 0.55 | 1.30 | 0.095 | 0.200 | 26 | 26 | 8 |
| 130 | 3 | 1 | 45 | 0 | 8.0 | 1.35 | 2.00 | 0.120 | 0.255 | 42 | 42 | 15 |
| 131 | 3 | 1 | 51 | 0 | 4.9 | 1.35 | 1.15 | 0.095 | 0.220 | 30 | 30 | 8 |
| 132 | 3 | 1 | 57 | 0 | 4.8 | 1.35 | 0.75 | 0.055 | 0.180 | 24 | 20 | 4 |
| 133 | 3 | 1 | 62 | 0 | 5.5 | 0.65 | 1.60 | 0.085 | 0.195 | 26 | 26 | 6 |
| 134 | 3 | 1 | 68 | 0 | 5.6 | 0.65 | 1.75 | 0.075 | 0.190 | 26 | 26 | 6 |
| 135 | 3 | 2 | 74. | 0 | 2.8 | 0.65 | 0.50 | 0.105 | 0.240 | 20 | 20 | 6 |
| 136 | 3 | 2 | 79 | 0 | 4.1 | 0.80 | 0.85 | 0.115 | 0.290 | 15 | 15 | 4 |
| 137 | 3 | 2 | 84 | 0 | 2.1 | 0.50 | 0.50 | 0.120 | 0.270 | 17 | 17 | 5 |
| 138 | 3 | 2 | 89 | 0 | 8.2 | 1.30 | 1.00 | 0.105 | 0.260 | 46 | 46 | 17 |
| 139 | 3 | 2 | 94 | 0 | 5.8 | 1.00 | 1.60 | 0.190 | 0.415 | 24 | 24 | 9 |
| 140 | 3 | 2 | 100 | 0 | 6.1 | 0.80 | 1.55 | 0.080 | 0.155 | 29 | 29 | 13 |
| 141 | 3 | 2 | 106 | 0 | 2.0 | 0.30 | 0.55 | 0.070 | 0.190 | 9 | 9 | 3 |
| 142 | 3 | 2 | 111 | 0 | 2.8 | 0.45 | 0.70 | 0.200 | 0.480 | 16 | 16 | 3 |
| 143 | 3 | 2 | 116 | 0 | 3.7 | 0.50 | 1.20 | 0.210 | 0.480 | 22 | 22 | 4 |
| 144 | 3 | 2 | 121 | 0 | 2.5 | 0.60 | 0.50 | 0.165 | 0.335 | 18 | 18 | 4 |
| 145 | 3 | 2 | 126 | 0 | 5.8 | 1.50 | 0.70 | 0.055 | 0.145 | 38 | 38 | 26 |
| 146 | 3 | 2 | 131 | 0 | 2.8 | 0.55 | 0.75 | 0.105 | 0.235 | 14 | 14 | 4 |
| 147 | 3 | 2 | 136 | 0 | 7.8 | 1.80 | 1.50 | 0.170 | 0.330 | 41 | 41 | 17 |
| 148 | 3 | 2 | 141 | 0 | 7.0 | 1.30 | 1.40 | 0.145 | 0.270 | 38 | 38 | 23 |
| 149 | 3 | 2 | 146 | 0 | 6.8 | 1.80 | 1.45 | 0.090 | 0.175 | 35 | 35 | 13 |
| 150 | 3 | 2 | 151 | 0 | 8.5 | 1.45 | 2.15 | 0.065 | 0.140 | 39 | 39 | 19 |
| 151 | 3 | 2 | 156 | 0 | 5.4 | 0.70 | 1.60 | 0.070 | 0.155 | 30 | 30 | 13 |
| 152 | 3 | 2 | 161 | 0 | 7.2 | 1.30 | 1.60 | 0.105 | 0.220 | 42 | 42 | 15 |
| 153 | 3 | 2 | 166 | 0 | 7.2 | 2.15 | 0.90 | 0.100 | 0.215 | 42 | 42 | 12 |
| 154 | 3 | 2 | 171 | 0 | 4.3 | 0.90 | 1.35 | 0.060 | 0.125 | 27 | 27 | 12 |
| 155 | 3 | 3 | 177 | 0 | 5.6 | 0.65 | 1.50 | 0.055 | 0.195 | 21 | 15 | 5 |
| 156 | 3 | 3 | 183 | 0 | 4.1 | 1.45 | 0.65 | 0.130 | 0.305 | 24 | 24 | 11 |
| 157 | 3 | 3 | 189 | 0 | 5.5 | 1.55 | 1.10 | 0.120 | 0.280 | 27 | 27 | 8 |
| 158 | 3 | 3 | 197 | 0 | 5.6 | 1.75 | 0.45 | 0.155 | 0.355 | 27 | 27 | 6 |
| 159 | 3 | 3 | 204 | 0 | 5.0 | 0.80 | 1.30 | 0.090 | 0.240 | 24 | 24 | 5 |
| 160 | 3 | 3 | 209 | 0 | 6.8 | 2.45 | 1.05 | 0.145 | 0.300 | 31 | 31 | 10 |
| 161 | 3 | 3 | 215 | 0 | 8.6 | 1.95 | 1.80 | 0.095 | 0.220 | 40 | 40 | 15 |
| 162 | 3 | 3 | 221 | 0 | 4.8 | 1.35 | 0.60 | 0.070 | 0.160 | 31 | 31 | 15 |
| 163 | 3 | 3 | 228 | 0 | 5.1 | 1.50 | 1.00 | 0.145 | 0.300 | 33 | 33 | 13 |
| 164 | 3 | 3 | 236 | 0 | 4.8 | 1.20 | 0.50 | 0.065 | 0.180 | 25 | 25 | 6 |
| 165 | 3 | 3 | 240 | 0 | 4.7 | 0.95 | 1.10 | 0.070 | 0.165 | 29 | 29 | 12 |
| 166 | 3 | 3 | 245 | 0 | 8.0 | 2.00 | 1.15 | 0.080 | 0.165 | 38 | 38 | 11 |
| 167 | 3 | 3 | 251 | 0 | 4.9 | 1.15 | 1.05 | 0.160 | 0.340 | 23 | 23 | 6 |
| 168 | 3 | 3 | 259 | 0 | 3.8 | 0.80 | 0.70 | 0.055 | 0.140 | 21 | 14 | 7 |
| 169 | 3 | 3 | 264 | 0 | 2.9 | 0.65 | 0.90 | 0.090 | 0.170 | 25 | 22 | 16 |
| 170 | 3 | 3 | 271 | 0 | 5.3 | 0.65 | 1.45 | 0.070 | 0.190 | 33 | 33 | 11 |
| 171 | 3 | 4 | 277 | 0 | 3.2 | 0.45 | 0.80 | 0.065 | 0.155 | 27 | 27 | 11 |
| 172 | 3 | 4 | 282 | 0 | 5.2 | 1.40 | 0.75 | 0.095 | 0.215 | 31 | 31 | 9 |
| 173 | 3 | 4 | 287 | 0 | 5.8 | 0.85 | 1.35 | 0.095 | 0.250 | 29 | 29 | 9 |
| 174 | 3 | 4 | 292 | 0 | 7.3 | 1.90 | 1.60 | 0.135 | 0.290 | 30 | 30 | 9 |
| 175 | 3 | 4 | 297 | 0 | 3.7 | 0.95 | 0.60 | 0.090 | 0.215 | 25 | 25 | 7 |
| 176 | 3 | 4 | 302 | 0 | 2.4 | 0.50 | 0.50 | 0.045 | 0.115 | 20 | 20 | 10 |

Listing of Ident (1990) + Observed (1991-97)        101
08:11 Thursday, October 15, 1998

| OBS | BLCK | PLOT | TAG | STAG97 | DBH97 | SAP97 | HRT97 | RAD0597 | RAD1097 | STMLN97 | CRNTP97 | CRNHT97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 177 | 3 | 4 | 308 | 0 | 3.4 | 0.20 | 1.30 | 0.075 | 0.200 | 27 | 27 | 10 |
| 178 | 3 | 4 | 313 | 0 | 7.1 | 1.95 | 1.55 | 0.095 | 0.220 | 31 | 31 | 9 |
| 179 | 3 | 4 | 318 | 0 | 7.6 | 1.60 | 2.45 | 0.115 | 0.265 | 38 | 38 | 10 |
| 180 | 3 | 4 | 323 | 0 | 4.9 | 1.05 | 1.10 | 0.095 | 0.200 | 26 | 26 | 12 |
| 181 | 3 | 4 | 328 | 0 | 4.8 | 0.70 | 1.20 | 0.080 | 0.185 | 34 | 34 | 13 |
| 182 | 3 | 4 | 333 | 0 | 5.5 | 0.90 | 1.75 | 0.140 | 0.285 | 29 | 29 | 10 |
| 183 | 3 | 4 | 338 | 0 | 6.8 | 1.75 | 0.85 | 0.105 | 0.275 | 31 | 31 | 6 |
| 184 | 3 | 5 | 343 | 0 | 6.4 | 0.80 | 1.25 | 0.070 | 0.170 | 29 | 29 | 6 |
| 185 | 3 | 5 | 346 | 0 | 4.8 | 1.45 | 0.65 | 0.105 | 0.245 | 30 | 30 | 11 |
| 186 | 3 | 5 | 351 | 0 | 3.6 | 0.65 | 1.00 | 0.125 | 0.255 | 24 | 24 | 4 |
| 187 | 3 | 5 | 356 | 0 | 3.4 | 1.40 | 0.25 | 0.165 | 0.360 | 20 | 20 | 5 |
| 188 | 3 | 5 | 361 | 0 | 3.0 | 0.70 | 0.55 | 0.115 | 0.260 | 18 | 18 | 5 |
| 189 | 3 | 5 | 366 | 0 | 5.5 | 2.00 | 0.85 | 0.130 | 0.290 | 31 | 31 | 12 |
| 190 | 3 | 5 | 371 | 0 | 4.8 | 1.30 | 0.55 | 0.070 | 0.160 | 27 | 27 | 9 |
| 191 | 3 | 5 | 376 | 0 | 6.7 | 2.00 | 0.90 | 0.080 | 0.205 | 27 | 27 | 7 |
| 192 | 3 | 5 | 381 | 0 | 2.6 | 0.40 | 0.65 | 0.090 | 0.190 | 18 | 18 | 4 |
| 193 | 3 | 5 | 386 | 0 | 2.2 | 0.20 | 0.65 | 0.105 | 0.280 | 21 | 21 | 9 |
| 194 | 3 | 5 | 391 | 0 | 8.6 | 2.85 | 1.10 | 0.030 | 0.070 | 36 | 36 | 9 |
| 195 | 3 | 5 | 396 | 0 | 6.3 | 1.20 | 1.55 | 0.140 | 0.335 | 30 | 30 | 7 |
| 196 | 3 | 5 | 401 | 0 | 4.3 | 1.25 | 0.70 | 0.080 | 0.195 | 28 | 28 | 15 |
| 197 | 3 | 5 | 406 | 0 | 3.8 | 1.20 | 0.50 | 0.105 | 0.260 | 23 | 23 | 11 |
| 198 | 3 | 5 | 411 | 0 | 7.1 | 1.35 | 1.75 | 0.145 | 0.355 | 34 | 34 | 6 |
| 199 | 3 | 5 | 416 | 0 | 4.6 | 0.85 | 0.85 | 0.120 | 0.290 | 21 | 21 | 5 |
| 200 | 3 | 5 | 421 | 0 | 7.5 | 2.00 | 1.80 | 0.095 | 0.220 | 33 | 33 | 7 |
| 201 | 3 | 5 | 426 | 0 | 2.6 | 0.80 | 0.30 | 0.065 | 0.190 | 21 | 21 | 10 |
| 202 | 3 | 5 | 431 | 0 | 4.5 | 1.45 | 0.40 | 0.095 | 0.240 | 26 | 26 | 6 |
| 203 | 4 | 1 | 437 | 0 | 4.3 | 0.45 | 1.70 | 0.090 | 0.180 | 29 | 29 | 13 |
| 204 | 4 | 1 | 442 | 0 | 4.1 | 1.10 | 0.65 | 0.015 | 0.105 | 28 | 28 | 13 |
| 205 | 4 | 1 | 447 | 0 | 5.2 | 1.20 | 1.30 | 0.100 | 0.255 | 27 | 13 | 6 |
| 206 | 4 | 1 | 452 | 0 | 4.1 | 0.50 | 1.35 | 0.100 | 0.250 | 28 | 28 | 7 |
| 207 | 4 | 1 | 457 | 0 | 4.4 | 0.55 | 1.25 | 0.090 | 0.170 | 29 | 29 | 13 |
| 208 | 4 | 1 | 460 | 2 | 4.7 | . | . | 0.155 | 0.405 | 26 | 21 | 13 |
| 209 | 4 | 1 | 463 | 0 | 4.2 | 0.50 | 0.65 | 0.050 | 0.185 | 28 | 28 | 14 |
| 210 | 4 | 1 | 468 | 0 | 7.0 | 1.30 | 1.55 | 0.155 | 0.390 | 30 | 30 | 9 |
| 211 | 4 | 1 | 473 | 0 | 4.4 | 0.55 | 1.55 | 0.120 | 0.265 | 29 | 29 | 13 |
| 212 | 4 | 1 | 475 | 1 | 3.6 | 0.65 | 1.00 | 0.075 | 0.215 | 26 | 15 | 13 |
| 213 | 4 | 1 | 478 | 0 | 5.3 | 1.05 | 1.30 | 0.070 | 0.185 | 32 | 32 | 10 |
| 214 | 4 | 1 | 483 | 0 | 4.1 | 0.90 | 0.85 | 0.040 | 0.145 | 32 | 22 | 15 |
| 215 | 4 | 1 | 488 | 0 | 4.4 | 0.90 | 0.75 | 0.070 | 0.155 | 28 | 28 | 13 |
| 216 | 4 | 1 | 493 | 0 | 4.2 | 1.35 | 0.95 | 0.120 | 0.280 | 28 | 28 | 13 |
| 217 | 4 | 1 | 498 | 0 | 3.6 | 0.50 | 1.40 | 0.030 | 0.120 | 24 | 14 | 6 |
| 218 | 4 | 1 | 504 | 0 | 3.2 | 0.65 | 0.60 | 0.115 | 0.260 | 21 | 21 | 7 |
| 219 | 4 | 1 | 509 | 0 | 2.0 | 0.10 | 0.75 | 0.135 | 0.250 | 15 | 7 | 3 |
| 220 | 4 | 1 | 514 | 0 | 4.8 | 0.60 | 1.45 | 0.080 | 0.250 | 30 | 30 | 11 |

Listing of Ident (1990) + Observed (1991-97)        102
08:11 Thursday, October 15, 1998

| OBS | BLCK | PLOT | TAG | STAG97 | DBH97 | SAP97 | HRT97 | RAD0597 | RAD1097 | STMLN97 | CRNTP97 | CRNHT97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 | 4 | 1 | 522 | 0 | 3.4 | 0.70 | 0.80 | 0.130 | 0.300 | 22 | 22 | 6 |
| 222 | 4 | 1 | 527 | 0 | 3.6 | 0.80 | 0.75 | 0.055 | 0.200 | 25 | 17 | 11 |
| 223 | 4 | 1 | 532 | 0 | 3.1 | 0.30 | 1.10 | 0.070 | 0.205 | 23 | 23 | 10 |
| 224 | 4 | 2 | 537 | 0 | 4.8 | 0.65 | 1.55 | 0.080 | 0.185 | 25 | 15 | 9 |
| 225 | 4 | 2 | 543 | 0 | 2.8 | 0.55 | 0.75 | 0.095 | 0.210 | 18 | 18 | 8 |
| 226 | 4 | 2 | 552 | 0 | 4.8 | 0.80 | 1.15 | 0.080 | 0.220 | 24 | 14 | 5 |
| 227 | 4 | 2 | 560 | 0 | 3.9 | 1.10 | 0.50 | 0.075 | 0.200 | 21 | 12 | 6 |
| 228 | 4 | 2 | 566 | 0 | 6.8 | 1.75 | 1.35 | 0.105 | 0.265 | 29 | 29 | 9 |
| 229 | 4 | 2 | 572 | 0 | 4.7 | 1.50 | 0.90 | 0.105 | 0.210 | 23 | 14 | 6 |
| 230 | 4 | 2 | 578 | 0 | 4.6 | 0.75 | 1.30 | 0.095 | 0.215 | 23 | 23 | 6 |
| 231 | 4 | 2 | 585 | 0 | 3.8 | 0.60 | 0.90 | 0.055 | 0.170 | 16 | 16 | 8 |
| 232 | 4 | 2 | 592 | 0 | 4.2 | 1.10 | 0.60 | 0.055 | 0.175 | 23 | 13 | 7 |
| 233 | 4 | 2 | 598 | 0 | 4.0 | 0.75 | 0.95 | 0.065 | 0.175 | 21 | 10 | 5 |
| 234 | 4 | 2 | 607 | 0 | 2.7 | 0.80 | 0.30 | 0.040 | 0.110 | 14 | 8 | 6 |
| 235 | 4 | 2 | 614 | 0 | 3.3 | 0.90 | 0.40 | 0.085 | 0.190 | 22 | 22 | 10 |
| 236 | 4 | 2 | 619 | 0 | 2.2 | 0.25 | 0.55 | 0.045 | 0.140 | 13 | 8 | 4 |
| 237 | 4 | 2 | 627 | 0 | 5.1 | 1.45 | 0.65 | 0.075 | 0.230 | 25 | 19 | 8 |
| 238 | 4 | 2 | 632 | 0 | 2.7 | 0.65 | 0.35 | 0.090 | 0.220 | 16 | 16 | 4 |
| 239 | 4 | 2 | 640 | 0 | 4.5 | 0.85 | 1.45 | 0.105 | . | 24 | 24 | 9 |
| 240 | 4 | 2 | 647 | 0 | 2.5 | 0.35 | 1.00 | 0.105 | 0.215 | 19 | 19 | 8 |
| 241 | 4 | 3 | 652 | 0 | 5.8 | 0.45 | 1.95 | 0.125 | 0.330 | 27 | 27 | 6 |
| 242 | 4 | 3 | 654 | 0 | 3.9 | 0.40 | 1.95 | 0.105 | 0.245 | 25 | 25 | 10 |
| 243 | 4 | 3 | 659 | 0 | 2.2 | 0.30 | 0.80 | 0.115 | 0.265 | 15 | 15 | 3 |
| 244 | 4 | 3 | 664 | 0 | 5.1 | 0.60 | 1.90 | 0.120 | 0.320 | 23 | 23 | 5 |
| 245 | 4 | 3 | 669 | 0 | 3.6 | 0.35 | 1.15 | 0.095 | 0.205 | 21 | 21 | 6 |
| 246 | 4 | 3 | 674 | 0 | 4.1 | 0.65 | 1.35 | 0.140 | 0.365 | 23 | 23 | 6 |
| 247 | 4 | 3 | 680 | 0 | 4.2 | 1.00 | 0.45 | 0.120 | 0.295 | 17 | 17 | 5 |
| 248 | 4 | 3 | 685 | 0 | 4.0 | 0.35 | 1.45 | 0.105 | 0.295 | 24 | 24 | 6 |
| 249 | 4 | 3 | 691 | 0 | 3.4 | 0.35 | 0.85 | 0.065 | 0.170 | 22 | 22 | 10 |
| 250 | 4 | 3 | 696 | 0 | 4.2 | 1.25 | 1.15 | 0.175 | 0.390 | 23 | 23 | 13 |
| 251 | 4 | 3 | 701 | 0 | 3.9 | 1.05 | 0.65 | 0.120 | 0.305 | 22 | 22 | 6 |
| 252 | 4 | 3 | 706 | 0 | 4.0 | 0.55 | 1.40 | 0.080 | 0.255 | 25 | 25 | 9 |
| 253 | 4 | 3 | 711 | 0 | 4.0 | 1.00 | 0.85 | 0.155 | 0.355 | 22 | 22 | 6 |
| 254 | 4 | 3 | 716 | 0 | 3.4 | 0.50 | 1.05 | 0.110 | 0.280 | 21 | 21 | 9 |
| 255 | 4 | 3 | 721 | 0 | 2.9 | 0.40 | 0.95 | 0.095 | 0.215 | 18 | 18 | 7 |
| 256 | 4 | 3 | 726 | 0 | 4.8 | 1.45 | 0.60 | 0.090 | 0.190 | 22 | 13 | 6 |
| 257 | 4 | 3 | 731 | 0 | 5.6 | 1.40 | 0.85 | 0.110 | 0.270 | 25 | 25 | 5 |
| 258 | 4 | 3 | 736 | 0 | 4.7 | 1.00 | 0.95 | 0.130 | 0.300 | 23 | 23 | 6 |
| 259 | 4 | 3 | 741 | 0 | 4.6 | 1.30 | 0.75 | 0.180 | 0.375 | 20 | 20 | 5 |
| 260 | 4 | 3 | 746 | 0 | 4.6 | 1.25 | 0.55 | 0.115 | 0.300 | 20 | 20 | 3 |
| 261 | 4 | 3 | 751 | 0 | 4.5 | 1.00 | 0.75 | 0.115 | 0.305 | 18 | 18 | 5 |
| 262 | 4 | 3 | 756 | 0 | 3.1 | 0.65 | 0.55 | 0.070 | 0.175 | 23 | 23 | 9 |
| 263 | 4 | 3 | 761 | 0 | 3.7 | 0.50 | 0.70 | 0.100 | 0.245 | 20 | 20 | 5 |
| 264 | 4 | 3 | 766 | 0 | 4.3 | 1.05 | 0.55 | 0.135 | 0.300 | 22 | 22 | 5 |

Listing of   Ident (1990) + Observed (1991-97)          103
                              08:11 Thursday, October 15, 1998

| O B S | B L O C K | P L O T | T T A G | S T A T 9 7 | D B H 9 7 | S A P 9 7 | H R T 9 7 | R A D 0 5 9 7 | R A D 1 0 9 7 | S T M L N 9 7 | C R N T P 9 7 | C R N H T 9 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 265 | 4 | 3 | 771 | 0 | 5.5 | 1.40 | 0.10 | 0.175 | 0.430 | 22 | 22 | 5 |
| 266 | 4 | 4 | 776 | 0 | 4.2 | 1.15 | 0.75 | 0.145 | 0.355 | 17 | 17 | 8 |
| 267 | 4 | 4 | 784 | 0 | 5.6 | 1.80 | 0.70 | 0.145 | 0.350 | 21 | 19 | 5 |
| 268 | 4 | 4 | 789 | 0 | 4.0 | 1.50 | 0.40 | 0.145 | 0.350 | 23 | 23 | 7 |
| 269 | 4 | 4 | 797 | 0 | 6.6 | 1.15 | 2.45 | 0.275 | 0.495 | 31 | 31 | 11 |
| 270 | 4 | 4 | 803 | 0 | 4.7 | 1.60 | 0.30 | 0.070 | 0.255 | 19 | 11 | 5 |
| 271 | 4 | 4 | 808 | 0 | 5.7 | 1.05 | 1.75 | 0.170 | 0.420 | 28 | 28 | 6 |
| 272 | 4 | 4 | 815 | 0 | 5.0 | 2.30 | 0.40 | 0.210 | 0.530 | 23 | 23 | 5 |
| 273 | 4 | 4 | 823 | 0 | 2.8 | 0.90 | 0.40 | 0.085 | 0.210 | 19 | 19 | 5 |
| 274 | 4 | 4 | 833 | 0 | 4.9 | 1.35 | 1.25 | 0.190 | 0.465 | 19 | 19 | 5 |
| 275 | 4 | 4 | 839 | 0 | 5.5 | 1.75 | 0.70 | 0.095 | 0.245 | 23 | 15 | 6 |
| 276 | 4 | 4 | 847 | 0 | 4.1 | 0.50 | 1.30 | 0.140 | 0.345 | 19 | 19 | 7 |
| 277 | 4 | 4 | 854 | 0 | 5.2 | 2.30 | 0.50 | 0.155 | 0.380 | 23 | 23 | 6 |
| 278 | 4 | 4 | 860 | 0 | 4.7 | 1.00 | 0.75 | 0.075 | 0.170 | 21 | 21 | 5 |
| 279 | 4 | 4 | 865 | 0 | 4.5 | 0.80 | 0.80 | 0.070 | 0.160 | 21 | 17 | 4 |
| 280 | 4 | 4 | 871 | 0 | 3.7 | 0.55 | 0.85 | 0.080 | 0.245 | 20 | 20 | 7 |
| 281 | 4 | 4 | 877 | 0 | 2.9 | 0.80 | 0.45 | 0.080 | 0.235 | 14 | 14 | 5 |
| 282 | 4 | 5 | 884 | 0 | 5.3 | 1.00 | 0.85 | 0.120 | 0.290 | 27 | 27 | 6 |
| 283 | 4 | 5 | 887 | 0 | 2.7 | 1.00 | 0.30 | 0.100 | 0.265 | 15 | 15 | 5 |
| 284 | 4 | 5 | 892 | 0 | 5.4 | 1.40 | 1.05 | 0.085 | 0.295 | 23 | 23 | 5 |
| 285 | 4 | 5 | 897 | 0 | 4.3 | 1.30 | 0.35 | 0.100 | 0.230 | 24 | 24 | 9 |
| 286 | 4 | 5 | 902 | 0 | 3.5 | 0.35 | 1.50 | 0.120 | 0.315 | 20 | 20 | 6 |
| 287 | 4 | 5 | 907 | 0 | 4.1 | 1.40 | 0.55 | 0.155 | 0.375 | 19 | 19 | 6 |
| 288 | 4 | 5 | 912 | 0 | 5.8 | 1.05 | 0.90 | 0.105 | 0.240 | 27 | 27 | 6 |
| 289 | 4 | 5 | 917 | 0 | 4.5 | 1.05 | 0.80 | 0.245 | 0.540 | 23 | 23 | 5 |
| 290 | 4 | 5 | 922 | 0 | 3.5 | 0.75 | 1.05 | 0.145 | 0.320 | 20 | 20 | 7 |
| 291 | 4 | 5 | 927 | 0 | 4.3 | 1.00 | 0.70 | 0.065 | 0.165 | 23 | 23 | 6 |
| 292 | 4 | 5 | 932 | 0 | 3.4 | 0.65 | 0.95 | 0.105 | 0.255 | 19 | 19 | 6 |
| 293 | 4 | 5 | 937 | 0 | 3.2 | 1.20 | 0.45 | 0.145 | 0.355 | 20 | 20 | 6 |
| 294 | 4 | 5 | 942 | 0 | 4.4 | 1.65 | 0.40 | 0.135 | 0.360 | 20 | 20 | 3 |
| 295 | 4 | 5 | 947 | 0 | 3.9 | 1.25 | 0.40 | 0.095 | 0.255 | 19 | 19 | 6 |
| 296 | 4 | 5 | 952 | 0 | 2.3 | 0.40 | 0.55 | 0.110 | 0.280 | 11 | 11 | 2 |
| 297 | 4 | 5 | 957 | 0 | 3.4 | 0.75 | 0.50 | 0.080 | 0.215 | 12 | 12 | 2 |
| 298 | 4 | 5 | 962 | 0 | 5.0 | 0.70 | 0.65 | 0.230 | 0.495 | 21 | 21 | 4 |
| 299 | 4 | 5 | 967 | 0 | 5.5 | 1.75 | 1.05 | 0.105 | 0.340 | 23 | 23 | 6 |
| 300 | 4 | 5 | 972 | 0 | 2.5 | 0.85 | 0.35 | 0.090 | 0.190 | 15 | 15 | 6 |
| 301 | 4 | 5 | 977 | 0 | 2.8 | 0.85 | 0.40 | 0.105 | 0.305 | 15 | 15 | 5 |
| 302 | 4 | 5 | 982 | 0 | 3.9 | 1.00 | 0.40 | 0.100 | 0.250 | 18 | 18 | 4 |
| 303 | 4 | 5 | 987 | 0 | 3.5 | 1.30 | 0.45 | 0.110 | 0.320 | 16 | 16 | 5 |
| 304 | 4 | 5 | 992 | 0 | 3.5 | 1.20 | 0.45 | 0.080 | 0.210 | 20 | 20 | 6 |

```
options ls=132 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
if grd_tree<2 ; grd_tree=grd_tree*100;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
drop stat92x;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
drop stat93x;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
proc sort; by block plot tag;

data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
if tag;
ba90 = (dbh90**2)* .005454;
ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;

woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;

csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;

TITLE "Status=all";
*if stat92 ne 0 then csapba92=.;
*if stat93 ne 0 then csapba93=.;
*if stat94 ne 0 then csapba94=.;
*if stat95 ne 0 then csapba95=.;
*if stat97 ne 0 then csapba97=.;
```

```
proc sort; by block plot grd_tree;
proc means noprint nway; var  ba90--ba97 dbh91--crnht97
 sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
 output out=mean mean=
  n(csapba92--csapba97)=n_csap92-n_csap95 n_csap97; by block plot grd_tree;

libname save '.';
data save.meangrd; set mean;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
t_trees = _freq_;
hec= .15 * .404686;
acre=.15;
if block=2 and plot=4 then hec= .10 * .404686;
if block=1 and plot=3 then hec= .10 * .404686;
if block=2 and plot=4 then acre= .10;
if block=1 and plot=3 then acre= .10;

qmd90=sqrt(ba90/.005454);
qmd91=sqrt(ba91/.005454);
qmd92=sqrt(ba92/.005454);
qmd93=sqrt(ba93/.005454);
qmd94=sqrt(ba94/.005454);
qmd95=sqrt(ba95/.005454);
qmd97=sqrt(ba97/.005454);

t_den= t_trees/acre;

t_ba90=t_trees*ba90/acre;
t_ba91=t_trees*ba91/acre;
t_ba92=t_trees*ba92/acre;
t_ba93=t_trees*ba93/acre;
t_ba94=t_trees*ba94/acre;
t_ba95=t_trees*ba95/acre;
t_ba97=t_trees*ba97/acre;

t_spba91=t_trees*sap_ba91/acre;
t_spba92=t_trees*sap_ba92/acre;
t_spba93=t_trees*sap_ba93/acre;
t_spba94=t_trees*sap_ba94/acre;
t_spba95=t_trees*sap_ba95/acre;
t_spba97=t_trees*sap_ba97/acre;
```

```
proc print; var grd_tree treat block plot t_den--t_spba97 csapba92--csapba97
 n_csap92--n_csap97;
```

1                          .                                The SAS System                                    07:35 Monday, October 26, 1998

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12  TS045
      Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


    Welcome to SAS 6.12 TS-045!!  Installed February 1998.

    This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
    IML, INSIGHT, OR, QC, STAT and TUTOR options.

    The SAS software is for University use only, and may not be used
    for any commerical purposes.



NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
      real time           0.18 seconds
      cpu time            0.14 seconds

NOTE: DM statements are only valid in DMS mode.
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

1            options ls=132 ps=55;
2            data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
3            input block plot tag east north crown dbh90 rank grd_tree girdle;
4            if grd_tree<2 ; grd_tree=grd_tree*100;

NOTE: The infile '90.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
      The minimum record length was 20.
      The maximum record length was 27.
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: DATA statement used:
      real time           0.36 seconds
      cpu time            0.17 seconds


5            proc sort; by block plot tag;

NOTE: The data set WORK.T90 has 1520 observations and 10 variables.

```
NOTE: PROCEDURE SORT used:
      real time            0.24 seconds
      cpu time             0.09 seconds


6          data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
7          input block plot tag       DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
8          CRNTP91=STMLN91; drop CRNWD91;

NOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time            0.33 seconds
      cpu time             0.16 seconds


9          proc sort; by block plot tag;

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time            0.22 seconds
      cpu time             0.07 seconds


10         data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
11         input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 341 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.19 seconds
      cpu time             0.05 seconds


12         proc sort; by block plot tag;

NOTE: The data set WORK.T92 has 341 observations and 12 variables.
```

```
NOTE: PROCEDURE SORT used:
      real time          0.16 seconds
      cpu time           0.03 seconds


13        data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
14        input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
15        sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
16        drop stat92x;

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: DATA statement used:
      real time          0.27 seconds
      cpu time           0.07 seconds


17        proc sort; by block plot tag;

NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time          0.15 seconds
      cpu time           0.02 seconds


18        data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
19        input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
20        sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
21        drop stat93x;

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      3 at 20:12    3 at 20:32    3 at 20:51    3 at 20:67
NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: DATA statement used:
      real time          0.18 seconds
```

```
        cpu time            0.06 seconds


22          proc sort; by block plot tag;

NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.14 seconds
      cpu time            0.02 seconds


23          data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
24          input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
25          sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;

NOTE: The infile '95.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
      The minimum record length was 31.
      The maximum record length was 42.
NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.16 seconds
      cpu time            0.05 seconds


26          proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.13 seconds
      cpu time            0.00 seconds


27          data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
28          input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
29          sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;

NOTE: The infile '97.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=11868

NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
```

```
       8 at 29:12    11 at 29:32    10 at 29:51    8 at 29:67
NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: DATA statement used:
       real time            0.18 seconds
       cpu time             0.06 seconds


30         proc sort; by block plot tag;
31


NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: PROCEDURE SORT used:
       real time            0.15 seconds
       cpu time             0.02 seconds


32         data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
33         if tag;
34         ba90 = (dbh90**2)* .005454;
35         ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
36         ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
37         ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;
38
39         woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
40         woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
41         woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
42         woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
43         woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
44         woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;
45
46         csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
47         csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
48         csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
49         csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
50         csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
51
52         TITLE "Status=all";
53         *if stat92 ne 0 then csapba92=.;
54         *if stat93 ne 0 then csapba93=.;
55         *if stat94 ne 0 then csapba94=.;
56         *if stat95 ne 0 then csapba95=.;
57         *if stat97 ne 0 then csapba97=.;
58

NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=533 EAST=36 NORTH=8 CROWN=2 DBH90=5.6 RANK=3 GRD_TREE=100 GIRDLE=22 DBH91=5.6 HRT91=2.4 SAP91=0 RAD1091=0.15
RAD0591=0.05 STMLN91=37 CRNHT91=23 CRNTP91=37 STAT92=2 DBH92=5.3 HRT92=1.5 SAP92=0.9 RAD1092=0.05 RAD0592=0 STMLN92=37 CRNHT92=25
CRNTP92=37 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.15320286 BA93=. BA94=. BA95=. BA97=. WODA91=0.12566016
HWA91=0.12566016 SAP_BA91=0 WODA92=0.12566016 HWA92=0.049086 SAP_BA92=0.07657416 WODA93=0.12566016 HWA93=. SAP_BA93=.
WODA94=0.12566016 HWA94=. SAP_BA94=. WODA95=0.12566016 HWA95=. SAP_BA95=. WODA97=0.12566016 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
```

```
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=399
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=587 EAST=76 NORTH=49 CROWN=3 DBH90=4.1 RANK=3 GRD_TREE=100 GIRDLE=15 DBH91=4.1 HRT91=2 SAP91=0 RAD1091=0.2
RAD0591=0.1 STMLN91=29 CRNHT91=13 CRNTP91=29 STAT92=2 DBH92=4.9 HRT92=0.95 SAP92=1.25 RAD1092=0.25 RAD0592=0.1 STMLN92=28 CRNHT92=15
CRNTP92=28 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.09168174 BA91=0.09168174 BA92=0.13095054 BA93=. BA94=. BA95=. BA97=. WODA91=0.087264
HWA91=0.087264 SAP_BA91=0 WODA92=0.087264 HWA92=0.01968894 SAP_BA92=0.06757506 WODA93=0.087264 HWA93=. SAP_BA93=. WODA94=0.087264
HWA94=. SAP_BA94=. WODA95=0.087264 HWA95=. SAP_BA95=. WODA97=0.087264 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=. CSAPBA94=. CSAPBA95=.
CSAPBA97=. _ERROR_=1 _N_=443
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=601 EAST=70 NORTH=24 CROWN=2 DBH90=5.6 RANK=4 GRD_TREE=100 GIRDLE=21 DBH91=5.6 HRT91=2.3 SAP91=0 RAD1091=0.1
RAD0591=0.05 STMLN91=36 CRNHT91=15 CRNTP91=36 STAT92=2 DBH92=4.4 HRT92=1.25 SAP92=1.05 RAD1092=0.15 RAD0592=0.05 STMLN92=36
CRNHT92=15 CRNTP92=36 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=.
SAP94=. RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=.
CRNTP95=. STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.10558944 BA93=. BA94=. BA95=. BA97=. WODA91=0.11540664
HWA91=0.11540664 SAP_BA91=0 WODA92=0.11540664 HWA92=0.0340875 SAP_BA92=0.08131914 WODA93=0.11540664 HWA93=. SAP_BA93=.
WODA94=0.11540664 HWA94=. SAP_BA94=. WODA95=0.11540664 HWA95=. SAP_BA95=. WODA97=0.11540664 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=454
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=602 EAST=67 NORTH=22 CROWN=2 DBH90=6.5 RANK=1 GRD_TREE=100 GIRDLE=25 DBH91=6.5 HRT91=2.9 SAP91=0 RAD1091=0.25
RAD0591=0.1 STMLN91=40 CRNHT91=21 CRNTP91=40 STAT92=2 DBH92=6.3 HRT92=1.75 SAP92=0.9 RAD1092=0.15 RAD0592=0.05 STMLN92=40 CRNHT92=23
CRNTP92=40 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.2304315 BA91=0.2304315 BA92=0.21646926 BA93=. BA94=. BA95=. BA97=. WODA91=0.18347256
HWA91=0.18347256 SAP_BA91=0 WODA92=0.18347256 HWA92=0.0668115 SAP_BA92=0.11666106 WODA93=0.18347256 HWA93=. SAP_BA93=.
WODA94=0.18347256 HWA94=. SAP_BA94=. WODA95=0.18347256 HWA95=. SAP_BA95=. WODA97=0.18347256 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=455
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1179 at 35:42    1179 at 35:46    1195 at 36:14    1195 at 36:18    1218 at 36:42    1218 at 36:46    1325 at 37:14
      1325 at 37:18    1216 at 37:42    1216 at 37:46    1179 at 40:47    1179 at 40:54    1179 at 40:58    1179 at 40:84
      1195 at 41:47    1195 at 41:54    1195 at 41:58    1195 at 41:84    1218 at 42:47    1218 at 42:54    1218 at 42:58
      1218 at 42:84    1324 at 43:47    1324 at 43:54    1324 at 43:58    1324 at 43:84    1224 at 44:47    1224 at 44:54
      1224 at 44:58    1224 at 44:84    1179 at 46:19    1179 at 46:29    1183 at 46:38    1195 at 47:19    1195 at 47:29
      1195 at 47:38    1218 at 48:19    1218 at 48:29    1218 at 48:38    1324 at 49:19    1324 at 49:29    1324 at 49:38
      1224 at 50:19    1224 at 50:29    1224 at 50:38
NOTE: Mathematical operations could not be performed at the following places. The results of the operations have been set to
      missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      4 at 46:29
NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
NOTE: DATA statement used:
      real time          1.98 seconds
      cpu time           1.13 seconds


59        proc sort; by block plot grd_tree;


NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
```

```
NOTE: PROCEDURE SORT used:
      real time           0.74 seconds
      cpu time            0.21 seconds


60        proc means noprint nway; var  ba90--ba97 dbh91--crnht97
61         sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
62         output out=mean mean=
63         n(csapba92--csapba97)=n_csap92-n_csap95 n_csap97; by block plot grd_tree;
64
65        libname save '.';
NOTE: Libref SAVE was successfully assigned as follows:
      Engine:        V612
      Physical Name: /a/zumbrunn/jobs/jacobi/opt


NOTE: The data set WORK.MEAN has 32 observations and 81 variables.
NOTE: PROCEDURE MEANS used:
      real time           0.26 seconds
      cpu time            0.14 seconds


66      '  data save.meangrd; set mean;
67        if block=1 and plot=1 then treat=1;
68        if block=1 and plot=2 then treat=3;
69        if block=1 and plot=3 then treat=4;
70        if block=1 and plot=4 then treat=5;
71        if block=2 and plot=1 then treat=3;
72        if block=2 and plot=2 then treat=5;
73        if block=2 and plot=3 then treat=1;
74        if block=2 and plot=4 then treat=4;
75        if block=3 and plot=1 then treat=2;
76        if block=3 and plot=2 then treat=5;
77        if block=3 and plot=3 then treat=3;
78        if block=3 and plot=4 then treat=4;
79        if block=3 and plot=5 then treat=1;
80        if block=4 and plot=1 then treat=5;
81        if block=4 and plot=2 then treat=3;
82        if block=4 and plot=3 then treat=4;
83        if block=4 and plot=4 then treat=2;
84        if block=4 and plot=5 then treat=1;
85        t_trees = _freq_;
86        hec= .15 * .404686;
87        acre=.15;
88        if block=2 and plot=4 then hec= .10 * .404686;
89        if block=1 and plot=3 then hec= .10 * .404686;
90        if block=2 and plot=4 then acre= .10;
91        if block=1 and plot=3 then acre= .10;
92
93        qmd90=sqrt(ba90/.005454);
94        qmd91=sqrt(ba91/.005454);
95        qmd92=sqrt(ba92/.005454);
96        qmd93=sqrt(ba93/.005454);
97        qmd94=sqrt(ba94/.005454);
```

```
98          qmd95=sqrt(ba95/.005454);
99          qmd97=sqrt(ba97/.005454);
100
101         t_den= t_trees/acre;
102
103         t_ba90=t_trees*ba90/acre;
104         t_ba91=t_trees*ba91/acre;
105         t_ba92=t_trees*ba92/acre;
106         t_ba93=t_trees*ba93/acre;
107         t_ba94=t_trees*ba94/acre;
108         t_ba95=t_trees*ba95/acre;
109         t_ba97=t_trees*ba97/acre;
110
111         t_spba91=t_trees*sap_ba91/acre;
112         t_spba92=t_trees*sap_ba92/acre;
113         t_spba93=t_trees*sap_ba93/acre;
114         t_spba94=t_trees*sap_ba94/acre;
115         t_spba95=t_trees*sap_ba95/acre;
116         t_spba97=t_trees*sap_ba97/acre;
117
```

NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1 at 95:7     1 at 95:16    1 at 96:7    1 at 96:16    9 at 98:7    9 at 98:16    1 at 105:15    1 at 105:20    1 at 106:15
      1 at 106:20   9 at 108:15   9 at 108:20  1 at 112:17   1 at 112:26  1 at 113:17   1 at 113:26    9 at 115:17    9 at 115:26
      1 at 116:17   1 at 116:26
NOTE: The data set SAVE.MEANGRD has 32 observations and 106 variables.
NOTE: DATA statement used:
      real time            1.59 seconds
      cpu time             0.10 seconds


118         proc print; var grd_tree treat block plot t_den--t_spba97 csapba92--csapba97
119           n_csap92--n_csap97;
NOTE: The PROCEDURE PRINT printed pages 1-2.
NOTE: PROCEDURE PRINT used:
      real time            0.09 seconds
      cpu time             0.06 seconds


NOTE: The SAS System used:
      real time            7.83 seconds
      cpu time             2.66 seconds

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

Status=all                                    07:35 Monday, October 26, 1998    1

| OBS | GRD_TREE | TREAT | BLOCK | PLOT | T_DEN | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 346.667 | 97.869 | 97.869 | 94.943 | 109.403 | 97.709 | 116.671 | 106.769 | 60.7565 | 50.1167 | 51.0948 |
| 2 | 0 | 3 | 1 | 2 | 220.000 | 59.580 | 59.580 | 53.439 | 68.037 | 66.385 | 72.769 | 64.034 | 28.6542 | 18.6721 | 38.4013 |
| 3 | 100 | 3 | 1 | 2 | 146.667 | 41.734 | 41.734 | 41.257 | 44.825 | 39.930 | 39.514 | 37.482 | 20.6565 | 16.8774 | 25.6761 |
| 4 | 0 | 4 | 1 | 3 | 550.000 | 111.149 | 111.149 | 118.571 | 106.102 | 131.397 | 116.181 | 121.030 | 61.0433 | 56.4636 | 58.2617 |
| 5 | 100 | 4 | 1 | 3 | 70.000 | 19.831 | 19.831 | 15.153 | 14.676 | 19.481 | 17.050 | 17.032 | 12.5731 | 6.1848 | 5.6198 |
| 6 | 0 | 5 | 1 | 4 | 360.000 | 94.354 | 94.354 | 89.391 | 108.271 | 90.902 | 112.707 | 109.072 | 49.5321 | 44.9471 | 54.4904 |
| 7 | 100 | 5 | 1 | 4 | 240.000 | 63.156 | 63.156 | 63.485 | 71.567 | 63.882 | 57.873 | 69.975 | 35.1678 | 31.2318 | 34.9351 |
| 8 | 0 | 3 | 2 | 1 | 346.667 | 61.199 | 61.199 | 58.110 | 67.013 | 55.716 | 75.653 | 67.443 | 35.3063 | 28.3450 | 44.9937 |
| 9 | 100 | 3 | 2 | 1 | 240.000 | 46.802 | 46.802 | 37.076 | 50.165 | 43.471 | 54.260 | 33.828 | 25.3462 | 21.7167 | 26.6786 |
| 10 | 0 | 5 | 2 | 2 | 493.333 | 83.411 | 83.411 | 83.666 | 72.676 | 93.761 | 99.552 | 98.174 | 40.5807 | 47.2781 | 40.6786 |
| 11 | 100 | 5 | 2 | 2 | 326.667 | 56.596 | 56.596 | 50.233 | 54.279 | 61.443 | 75.830 | 62.153 | 26.4134 | 24.8628 | 23.7682 |
| 12 | 0 | 1 | 2 | 3 | 486.667 | 112.073 | 112.073 | 99.907 | 112.065 | 127.209 | 132.173 | 118.891 | 50.0434 | 41.7575 | 47.7186 |
| 13 | 0 | 4 | 2 | 4 | 720.000 | 105.432 | 105.432 | 110.097 | 99.588 | 117.896 | 120.353 | 113.158 | 57.4055 | 46.2744 | 63.9738 |
| 14 | 100 | 4 | 2 | 4 | 50.000 | 14.370 | 14.370 | . | 16.168 | 11.170 | 15.001 | 10.147 | 6.4690 | . | 8.3201 |
| 15 | 0 | 2 | 3 | 1 | 353.333 | 49.411 | 49.411 | 71.366 | 47.499 | 58.322 | 55.001 | 61.416 | 33.8839 | 48.3832 | 26.6628 |
| 16 | 100 | 2 | 3 | 1 | 53.333 | 11.152 | 11.152 | 10.963 | . | 4.890 | 14.103 | 17.606 | 8.9344 | 5.9718 | . |
| 17 | 0 | 5 | 3 | 2 | 466.667 | 65.417 | 65.417 | 75.701 | 92.503 | 81.985 | 66.671 | 82.061 | 50.3942 | 47.6054 | 61.1527 |
| 18 | 100 | 5 | 3 | 2 | 226.667 | 41.758 | 41.758 | 41.334 | 64.317 | 40.403 | 48.065 | 33.737 | 28.9367 | 25.1884 | 37.5103 |
| 19 | 0 | 3 | 3 | 3 | 326.667 | 38.069 | 38.069 | 42.755 | 36.673 | 44.373 | 61.059 | 57.787 | 28.1699 | 26.7068 | 22.2571 |
| 20 | 100 | 3 | 3 | 3 | 153.333 | 22.376 | 22.376 | 30.194 | 26.311 | 22.504 | 22.498 | 19.736 | 15.4195 | 21.9753 | 15.1868 |
| 21 | 0 | 4 | 3 | 4 | 413.333 | 52.859 | 52.859 | 48.787 | 56.387 | 82.826 | 74.032 | 58.485 | 39.9909 | 33.4732 | 37.0680 |
| 22 | 100 | 4 | 3 | 4 | 73.333 | 16.448 | 16.448 | 26.277 | 19.046 | 11.269 | 26.893 | 20.738 | 12.2250 | 13.9966 | 17.6802 |
| 23 | 0 | 1 | 3 | 5 | 613.333 | 58.768 | 58.768 | 54.768 | 66.520 | 62.898 | 102.155 | 89.563 | 45.7071 | 31.2645 | 44.7753 |
| 24 | 0 | 5 | 4 | 1 | 393.333 | 30.534 | 30.534 | 32.046 | 43.658 | 39.279 | . | 42.938 | 22.3905 | 23.0379 | 24.7015 |

| OBS | T_SPBA94 | T_SPBA95 | T_SPBA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_CSAP92 | N_CSAP93 | N_CSAP94 | N_CSAP95 | N_CSAP97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 54.9197 | 50.4217 | 61.5127 | -19.4591 | -15.0220 | -12.4676 | -13.4210 | 0.2046 | 12 | 10 | 10 | 10 | 10 |
| 2 | 30.4500 | 27.4333 | 23.7216 | -9.6156 | 8.7267 | -1.5519 | -14.7205 | -18.9932 | 6 | 7 | 8 | 6 | 6 |
| 3 | 17.4683 | 30.3530 | 16.2124 | -14.7897 | 4.5470 | -5.3717 | 42.6728 | -16.9581 | 9 | 6 | 4 | 4 | 4 |
| 4 | 69.8597 | 54.3982 | 62.1347 | -20.9069 | 0.2002 | 2.6173 | -16.4586 | 5.4239 | 13 | 12 | 9 | 11 | 11 |
| 5 | 12.6083 | 9.6107 | 10.0497 | -24.0150 | -30.9568 | -11.2670 | 0.8067 | -2.7211 | 1 | 1 | 4 | 3 | 3 |
| 6 | 48.5380 | 56.0187 | 56.9038 | 10.3031 | -14.8640 | 6.5818 | 13.4425 | 1.8327 | 10 | 8 | 11 | 11 | 12 |
| 7 | 36.9896 | 41.0337 | 34.8805 | -5.2088 | -6.9495 | 2.9981 | 18.8953 | -7.9590 | 14 | 13 | 8 | 6 | 4 |
| 8 | 36.7367 | 45.5062 | 29.1811 | -3.2968 | 7.0717 | 16.5873 | 30.7352 | -2.6910 | 12 | 7 | 10 | 11 | 13 |
| 9 | 33.2371 | 34.9100 | 20.0227 | 3.8801 | 8.3170 | 7.1451 | 15.8370 | 9.5952 | 12 | 13 | 5 | 4 | 3 |
| 10 | 42.9157 | 58.9327 | 40.4911 | 15.0362 | 3.9742 | 1.6026 | 34.0996 | -12.9064 | 15 | 14 | 14 | 14 | 18 |
| 11 | 34.3995 | 48.9060 | 16.5336 | -2.8521 | -13.6740 | -3.6477 | 31.3200 | -4.2312 | 18 | 16 | 9 | 6 | 1 |
| 12 | 55.8726 | 65.8722 | 46.2110 | -6.4905 | -6.0013 | 2.2123 | 33.3220 | -4.5402 | 14 | 15 | 15 | 15 | 14 |
| 13 | 59.6297 | 54.6622 | 44.2535 | -18.9418 | 3.5445 | 3.4205 | 10.3592 | -20.0818 | 15 | 16 | 14 | 13 | 16 |
| 14 | 5.6503 | 8.6296 | . | . | 13.3779 | -4.0741 | 32.6134 | . | 0 | 1 | 1 | 2 | 0 |
| 15 | 28.1827 | 16.9082 | 19.4577 | -3.9258 | -6.0247 | -5.7426 | -83.8033 | -43.1879 | 10 | 12 | 11 | 10 | 10 |
| 16 | 3.0106 | 6.6917 | 9.5554 | -14.7958 | . | -7.5893 | -39.0336 | -20.4647 | 3 | 0 | 1 | 2 | 2 |
| 17 | 45.1127 | 27.5815 | 38.8296 | -18.4830 | -8.5774 | -4.3929 | -59.1914 | -41.4305 | 15 | 12 | 13 | 15 | 15 |
| 18 | 22.6247 | 17.6041 | 16.1601 | -11.4851 | -2.2154 | -6.3143 | -36.2077 | -24.5387 | 6 | 9 | 8 | 6 | 5 |
| 19 | 26.0557 | 23.1712 | 27.7401 | -2.6101 | -6.2302 | -5.2853 | -53.5731 | -14.7192 | 11 | 8 | 11 | 9 | 12 |
| 20 | 12.7756 | 8.6170 | 7.1836 | -1.0136 | -6.7886 | -9.0051 | -27.5912 | -30.6835 | 4 | 7 | 3 | 5 | 3 |
| 21 | 50.6320 | 23.3808 | 24.2790 | -5.4657 | -3.3969 | -9.3807 | -58.3263 | -34.3883 | 13 | 13 | 11 | 13 | 12 |
| 22 | 6.6793 | 6.7833 | 10.1910 | -10.8635 | 4.2977 | -10.6305 | -44.3021 | -22.7507 | 2 | 2 | 4 | 1 | 2 |
| 23 | 39.1268 | 38.3228 | 42.3492 | -8.2177 | -0.7664 | -1.2834 | -37.5903 | -21.5748 | 19 | 19 | 18 | 19 | 19 |
| 24 | 17.3082 | . | 11.4556 | -2.1645 | -5.2472 | -9.2087 | . | -60.0919 | 11 | 11 | 11 | 0 | 13 |

| OBS | GRD_TREE | TREAT | BLOCK | PLOT | T_DEN | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 |
|-----|----------|-------|-------|------|---------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|
| 25 | 100 | 5 | 4 | 1 | 266.667 | 26.467 | 26.467 | 35.320 | 29.022 | 32.372 | . | 22.840 | 16.8889 | 20.1900 | 16.4202 |
| 26 | 0 | 3 | 4 | 2 | 346.667 | 21.693 | 21.693 | 26.133 | 26.261 | 25.300 | . | 31.121 | 17.6386 | 15.5433 | 19.1952 |
| 27 | 100 | 3 | 4 | 2 | 220.000 | 15.814 | 15.814 | 14.903 | 18.034 | 22.333 | . | 20.808 | 13.8306 | 12.8607 | 13.6786 |
| 28 | 0 | 4 | 4 | 3 | 673.333 | 36.864 | 36.864 | 42.744 | 47.800 | 57.980 | . | 65.044 | 28.5142 | 25.1428 | 29.1145 |
| 29 | 100 | 4 | 4 | 3 | 120.000 | 10.923 | 10.923 | 13.921 | 8.960 | 17.499 | . | 13.292 | 8.8511 | 8.5933 | 4.2607 |
| 30 | 0 | 2 | 4 | 4 | 473.333 | 31.241 | 31.241 | 41.695 | 40.189 | 47.249 | . | 54.768 | 24.0700 | 22.4321 | 20.0237 |
| 31 | 100 | 2 | 4 | 4 | 80.000 | 7.119 | 7.119 | 5.345 | 10.742 | 7.542 | . | 11.339 | 5.4700 | 3.2070 | 6.0067 |
| 32 | 0 | 1 | 4 | 5 | 746.667 | 36.248 | 36.248 | 39.055 | 40.606 | 73.111 | . | 67.103 | 28.2950 | 22.1835 | 21.3053 |

| OBS | T_SPBA94 | T_SPBA95 | T_SPBA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_CSAP92 | N_CSAP93 | N_CSAP94 | N_CSAP95 | N_CSAP97 |
|-----|----------|----------|----------|----------|-----------|-----------|----------|-----------|----------|----------|----------|----------|----------|
| 25 | 14.2450 | . | 9.0048 | -3.0478 | -11.1698 | -10.4923 | . | -46.0840 | 10 | 9 | 9 | 0 | 7 |
| 26 | 13.0712 | . | 9.4252 | -5.4596 | 0.1657 | -7.2824 | . | -47.9223 | 12 | 13 | 9 | 0 | 6 |
| 27 | 12.2713 | . | 10.2513 | -1.8254 | -3.3002 | -14.9181 | . | -24.3959 | 6 | 7 | 7 | 0 | 11 |
| 28 | 26.5111 | . | 11.7215 | -4.3131 | -6.0696 | -6.5088 | . | -74.1188 | 20 | 23 | 22 | 0 | 22 |
| 29 | 7.5985 | . | 7.2429 | -6.1410 | -3.1250 | -41.7486 | . | -10.3563 | 4 | 1 | 3 | 0 | 3 |
| 30 | 23.4440 | . | 14.1297 | -6.5652 | -7.4991 | -6.0873 | . | -39.5599 | 16 | 14 | 15 | 0 | 12 |
| 31 | 4.9151 | . | 5.4987 | -3.1621 | -11.6602 | -2.8750 | . | -8.7054 | 1 | 3 | 2 | 0 | 4 |
| 32 | 41.9430 | . | 21.9215 | -3.9670 | -4.9354 | -3.0909 | . | -31.7609 | 23 | 23 | 22 | 0 | 23 |

```
options ls=132 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
if grd_tree<2 ; grd_tree=grd_tree*100;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
drop stat92x;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
drop stat93x;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
proc sort; by block plot tag;

data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
if tag;
ba90 = (dbh90**2)* .005454;
ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;

woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;

csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;

TITLE "Status=0";
if stat92 ne 0 then csapba92=.;
if stat93 ne 0 then csapba93=.;
if stat94 ne 0 then csapba94=.;
if stat95 ne 0 then csapba95=.;
if stat97 ne 0 then csapba97=.;
```

```
proc sort; by block plot grd_tree;
proc means noprint nway; var  ba90--ba97 dbh91--crnht97
 sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
 output out=mean mean=
  n(csapba92--csapba97)=n_csap92-n_csap95 n_csap97; by block plot grd_tree;

libname save '.';
data save.meangrd; set mean;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
t_trees = _freq_;
hec= .15 * .404686;
acre=.15;
if block=2 and plot=4 then hec= .10 * .404686;
if block=1 and plot=3 then hec= .10 * .404686;
if block=2 and plot=4 then acre= .10;
if block=1 and plot=3 then acre= .10;

qmd90=sqrt(ba90/.005454);
qmd91=sqrt(ba91/.005454);
qmd92=sqrt(ba92/.005454);
qmd93=sqrt(ba93/.005454);
qmd94=sqrt(ba94/.005454);
qmd95=sqrt(ba95/.005454);
qmd97=sqrt(ba97/.005454);

t_den= t_trees/acre;

t_ba90=t_trees*ba90/acre;
t_ba91=t_trees*ba91/acre;
t_ba92=t_trees*ba92/acre;
t_ba93=t_trees*ba93/acre;
t_ba94=t_trees*ba94/acre;
t_ba95=t_trees*ba95/acre;
t_ba97=t_trees*ba97/acre;

t_spba91=t_trees*sap_ba91/acre;
t_spba92=t_trees*sap_ba92/acre;
t_spba93=t_trees*sap_ba93/acre;
t_spba94=t_trees*sap_ba94/acre;
t_spba95=t_trees*sap_ba95/acre;
t_spba97=t_trees*sap_ba97/acre;
```

```
proc print; var grd_tree treat block plot t_den--t_spba97 csapba92--csapba97
 n_csap92--n_csap97;
```

1                                                              The SAS System                                              07:34 Monday, October 26, 1998

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12  TS045
      Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


    Welcome to SAS 6.12 TS-045!!  Installed February 1998.

    This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
    IML, INSIGHT, OR, QC, STAT and TUTOR options.

    The SAS software is for University use only, and may not be used
    for any commerical purposes.



NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
      real time           0.20 seconds
      cpu time            0.12 seconds

NOTE: DM statements are only valid in DMS mode.
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

1          options ls=132 ps=55;
2          data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
3          input block plot tag east north crown dbh90 rank grd_tree girdle;
4          if grd_tree<2 ; grd_tree=grd_tree*100;

NOTE: The infile '90.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
      The minimum record length was 20.
      The maximum record length was 27.
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: DATA statement used:
      real time           0.38 seconds
      cpu time            0.15 seconds


5          proc sort; by block plot tag;

NOTE: The data set WORK.T90 has 1520 observations and 10 variables.

2                                                    The SAS System                                    07:34 Monday, October 26, 1998

NOTE: PROCEDURE SORT used:
      real time          0.23 seconds
      cpu time           0.06 seconds


```
6          data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
7          input block plot tag       DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
8          CRNTP91=STMLN91; drop CRNWD91;
```

NOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time          0.32 seconds
      cpu time           0.17 seconds


```
9          proc sort; by block plot tag;
```

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time          0.24 seconds
      cpu time           0.06 seconds


```
10         data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
11         input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
```

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 341 observations and 12 variables.
NOTE: DATA statement used:
      real time          0.21 seconds
      cpu time           0.06 seconds


```
12         proc sort; by block plot tag;
```

NOTE: The data set WORK.T92 has 341 observations and 12 variables.

NOTE: PROCEDURE SORT used:
      real time            0.15 seconds
      cpu time             0.03 seconds


13         data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
14         input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
15         sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
16         drop stat92x;

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.18 seconds
      cpu time             0.07 seconds


17         proc sort; by block plot tag;

NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.15 seconds
      cpu time             0.02 seconds


18         data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
19         input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
20         sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
21         drop stat93x;

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      3 at 20:12    3 at 20:32    3 at 20:51    3 at 20:67
NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.18 seconds

4                             The SAS System                  07:34 Monday, October 26, 1998

```
       cpu time            0.05 seconds


22        proc sort; by block plot tag;

NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.15 seconds
      cpu time            0.01 seconds


23        data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
24        input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
25        sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;

NOTE: The infile '95.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
      The minimum record length was 31.
      The maximum record length was 42.
NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.17 seconds
      cpu time            0.04 seconds


26        proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.13 seconds
      cpu time            0.01 seconds


27        data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
28        input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
29        sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;

NOTE: The infile '97.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=11868

NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
```

```
        8 at 29:12    11 at 29:32    10 at 29:51    8 at 29:67
NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: DATA statement used:
      real time              0.19 seconds
      cpu time               0.06 seconds


30        proc sort; by block plot tag;
31


NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time              0.15 seconds
      cpu time               0.02 seconds


32        data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
33        if tag;
34        ba90 = (dbh90**2)*  .005454;
35        ba91 = (dbh91**2)*  .005454; ba92 = (dbh92**2)*  .005454;
36        ba93 = (dbh93**2)*  .005454; ba94 = (dbh94**2)*  .005454;
37        ba95 = (dbh95**2)*  .005454; ba97 = (dbh97**2)*  .005454;
38
39        woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
40        woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
41        woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
42        woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
43        woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
44        woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;
45
46        csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
47        csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
48        csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
49        csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
50        csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
51
52        TITLE "Status=0";
53        if stat92 ne 0 then csapba92=.;
54        if stat93 ne 0 then csapba93=.;
55        if stat94 ne 0 then csapba94=.;
56        if stat95 ne 0 then csapba95=.;
57        if stat97 ne 0 then csapba97=.;
58
```

```
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=533 EAST=36 NORTH=8 CROWN=2 DBH90=5.6 RANK=3 GRD_TREE=100 GIRDLE=22 DBH91=5.6 HRT91=2.4 SAP91=0 RAD1091=0.15
RAD0591=0.05 STMLN91=37 CRNHT91=23 CRNTP91=37 STAT92=2 DBH92=5.3 HRT92=1.5 SAP92=0.9 RAD1092=0.05 RAD0592=0 STMLN92=37 CRNHT92=25
CRNTP92=37 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.15320286 BA93=. BA94=. BA95=. BA97=. WODA91=0.12566016
HWA91=0.12566016 SAP_BA91=0 WODA92=0.12566016 HWA92=0.049086 SAP_BA92=0.07657416 WODA93=0.12566016 HWA93=. SAP_BA93=.
WODA94=0.12566016 HWA94=. SAP_BA94=. WODA95=0.12566016 HWA95=. SAP_BA95=. WODA97=0.12566016 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
```

```
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=399
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=587 EAST=76 NORTH=49 CROWN=3 DBH90=4.1 RANK=3 GRD_TREE=100 GIRDLE=15 DBH91=4.1 HRT91=2 SAP91=0 RAD1091=0.2
RAD0591=0.1 STMLN91=29 CRNHT91=13 CRNTP91=29 STAT92=2 DBH92=4.9 HRT92=0.95 SAP92=1.25 RAD1092=0.25 RAD0592=0.1 STMLN92=28 CRNHT92=15
CRNTP92=28 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.09168174 BA91=0.09168174 BA92=0.13095054 BA93=. BA94=. BA95=. BA97=. WODA91=0.087264
HWA91=0.087264 SAP_BA91=0 WODA92=0.087264 HWA92=0.01968894 SAP_BA92=0.06757506 WODA93=0.087264 HWA93=. SAP_BA93=. WODA94=0.087264
HWA94=. SAP_BA94=. WODA95=0.087264 HWA95=. SAP_BA95=. WODA97=0.087264 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=. CSAPBA94=. CSAPBA95=.
CSAPBA97=. _ERROR_=1 _N_=443
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=601 EAST=70 NORTH=24 CROWN=2 DBH90=5.6 RANK=4 GRD_TREE=100 GIRDLE=21 DBH91=5.6 HRT91=2.3 SAP91=0 RAD1091=0.1
RAD0591=0.05 STMLN91=36 CRNHT91=15 CRNTP91=36 STAT92=2 DBH92=4.4 HRT92=1.25 SAP92=1.05 RAD1092=0.15 RAD0592=0.05 STMLN92=36
CRNHT92=15 CRNTP92=36 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=.
SAP94=. RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=.
CRNTP95=. STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.10558944 BA93=. BA94=. BA95=. BA97=. WODA91=0.11540664
HWA91=0.11540664 SAP_BA91=0 WODA92=0.11540664 HWA92=0.0340875 SAP_BA92=0.08131914 WODA93=0.11540664 HWA93=. SAP_BA93=.
WODA94=0.11540664 HWA94=. SAP_BA94=. WODA95=0.11540664 HWA95=. SAP_BA95=. WODA97=0.11540664 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=454
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=602 EAST=67 NORTH=22 CROWN=2 DBH90=6.5 RANK=1 GRD_TREE=100 GIRDLE=25 DBH91=6.5 HRT91=2.9 SAP91=0 RAD1091=0.25
RAD0591=0.1 STMLN91=40 CRNHT91=21 CRNTP91=40 STAT92=2 DBH92=6.3 HRT92=1.75 SAP92=0.9 RAD1092=0.15 RAD0592=0.05 STMLN92=40 CRNHT92=23
CRNTP92=40 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.2304315 BA91=0.2304315 BA92=0.21646926 BA93=. BA94=. BA95=. BA97=. WODA91=0.18347256
HWA91=0.18347256 SAP_BA91=0 WODA92=0.18347256 HWA92=0.0668115 SAP_BA92=0.11666106 WODA93=0.18347256 HWA93=. SAP_BA93=.
WODA94=0.18347256 HWA94=. SAP_BA94=. WODA95=0.18347256 HWA95=. SAP_BA95=. WODA97=0.18347256 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=455
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1179 at 35:42    1179 at 35:46    1195 at 36:14    1195 at 36:18    1218 at 36:42    1218 at 36:46    1325 at 37:14
      1325 at 37:18    1216 at 37:42    1216 at 37:46    1179 at 40:47    1179 at 40:54    1179 at 40:58    1179 at 40:84
      1195 at 41:47    1195 at 41:54    1195 at 41:58    1195 at 41:84    1218 at 42:47    1218 at 42:54    1218 at 42:58
      1218 at 42:84    1324 at 43:47    1324 at 43:54    1324 at 43:58    1324 at 43:84    1224 at 44:47    1224 at 44:54
      1224 at 44:58    1224 at 44:84    1179 at 46:19    1179 at 46:29    1183 at 46:38    1195 at 47:19    1195 at 47:29
      1195 at 47:38    1218 at 48:19    1218 at 48:29    1218 at 48:38    1324 at 49:19    1324 at 49:29    1324 at 49:38
      1224 at 50:19    1224 at 50:29    1224 at 50:38
NOTE: Mathematical operations could not be performed at the following places. The results of the operations have been set to
      missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      4 at 46:29
NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
NOTE: DATA statement used:
      real time           2.11 seconds
      cpu time            1.10 seconds


59         proc sort; by block plot grd_tree;

NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
```

```
NOTE: PROCEDURE SORT used:
      real time           0.76 seconds
      cpu time            0.17 seconds



60          proc means noprint nway; var  ba90--ba97 dbh91--crnht97
61           sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
62           output out=mean mean=
63           n(csapba92--csapba97)=n_csap92-n_csap95 n_csap97; by block plot grd_tree;
64
65          libname save '.';
NOTE: Libref SAVE was successfully assigned as follows:
      Engine:         V612
      Physical Name: /a/zumbrunn/jobs/jacobi/opt

NOTE: The data set WORK.MEAN has 32 observations and 81 variables.
NOTE: PROCEDURE MEANS used:
      real time           0.33 seconds
      cpu time            0.16 seconds


66          data save.meangrd; set mean;
67          if block=1 and plot=1 then treat=1;
68          if block=1 and plot=2 then treat=3;
69          if block=1 and plot=3 then treat=4;
70          if block=1 and plot=4 then treat=5;
71          if block=2 and plot=1 then treat=3;
72          if block=2 and plot=2 then treat=5;
73          if block=2 and plot=3 then treat=1;
74          if block=2 and plot=4 then treat=4;
75          if block=3 and plot=1 then treat=2;
76          if block=3 and plot=2 then treat=5;
77          if block=3 and plot=3 then treat=3;
78          if block=3 and plot=4 then treat=4;
79          if block=3 and plot=5 then treat=1;
80          if block=4 and plot=1 then treat=5;
81          if block=4 and plot=2 then treat=3;
82          if block=4 and plot=3 then treat=4;
83          if block=4 and plot=4 then treat=2;
84          if block=4 and plot=5 then treat=1;
85          t_trees = _freq_;
86          hec= .15 * .404686;
87          acre=.15;
88          if block=2 and plot=4 then hec= .10 * .404686;
89          if block=1 and plot=3 then hec= .10 * .404686;
90          if block=2 and plot=4 then acre= .10;
91          if block=1 and plot=3 then acre= .10;
92
93          qmd90=sqrt(ba90/.005454);
94          qmd91=sqrt(ba91/.005454);
95          qmd92=sqrt(ba92/.005454);
96          qmd93=sqrt(ba93/.005454);
97          qmd94=sqrt(ba94/.005454);
```

8                          The SAS System                         07:34 Monday, October 26, 1998

```
98        qmd95=sqrt(ba95/.005454);
99        qmd97=sqrt(ba97/.005454);
100
101       t_den= t_trees/acre;
102
103       t_ba90=t_trees*ba90/acre;
104       t_ba91=t_trees*ba91/acre;
105       t_ba92=t_trees*ba92/acre;
106       t_ba93=t_trees*ba93/acre;
107       t_ba94=t_trees*ba94/acre;
108       t_ba95=t_trees*ba95/acre;
109       t_ba97=t_trees*ba97/acre;
110
111       t_spba91=t_trees*sap_ba91/acre;
112       t_spba92=t_trees*sap_ba92/acre;
113       t_spba93=t_trees*sap_ba93/acre;  ·
114       t_spba94=t_trees*sap_ba94/acre;
115       t_spba95=t_trees*sap_ba95/acre;
116       t_spba97=t_trees*sap_ba97/acre;
117
```

NOTE: Missing values were generated as a result of performing an operation on missing values.
       Each place is given by: (Number of times) at (Line):(Column).
       1 at 95:7      1 at 95:16      1 at 96:7      1 at 96:16      9 at 98:7      9 at 98:16      1 at 105:15      1 at 105:20      1 at 106:15
       1 at 106:20      9 at 108:15      9 at 108:20      1 at 112:17      1 at 112:26      1 at 113:17      1 at 113:26      9 at 115:17      9 at 115:26
       1 at 116:17      1 at 116:26
NOTE: The data set SAVE.MEANGRD has 32 observations and 106 variables.
NOTE: DATA statement used:
       real time              1.64 seconds
       cpu time              0.12 seconds


```
118       proc print; var grd_tree treat block plot t_den--t_spba97 csapba92--csapba97
119          n_csap92--n_csap97;
```
NOTE: The PROCEDURE PRINT printed pages 1-2.
NOTE: PROCEDURE PRINT used:
       real time              0.09 seconds
       cpu time              0.04 seconds


NOTE: The SAS System used:
       real time              8.09 seconds
       cpu time              2.56 seconds

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

| OBS | GRD_TREE | TREAT | BLOCK | PLOT | T_DEN | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 346.667 | 97.869 | 97.869 | 94.943 | 109.403 | 97.709 | 116.671 | 106.769 | 60.7565 | 50.1167 | 51.0948 |
| 2 | 0 | 3 | 1 | 2 | 220.000 | 59.580 | 59.580 | 53.439 | 68.037 | 66.385 | 72.769 | 64.034 | 28.6542 | 18.6721 | 38.4013 |
| 3 | 100 | 3 | 1 | 2 | 146.667 | 41.734 | 41.734 | 41.257 | 44.825 | 39.930 | 39.514 | 37.482 | 20.6565 | 16.8774 | 25.6761 |
| 4 | 0 | 4 | 1 | 3 | 550.000 | 111.149 | 111.149 | 118.571 | 106.102 | 131.397 | 116.181 | 121.030 | 61.0433 | 56.4636 | 58.2617 |
| 5 | 100 | 4 | 1 | 3 | 70.000 | 19.831 | 19.831 | 15.153 | 14.676 | 19.481 | 17.050 | 17.032 | 12.5731 | 6.1848 | 5.6198 |
| 6 | 0 | 5 | 1 | 4 | 360.000 | 94.354 | 94.354 | 89.391 | 108.271 | 90.902 | 112.707 | 109.072 | 49.5321 | 44.9471 | 54.4904 |
| 7 | 100 | 5 | 1 | 4 | 240.000 | 63.156 | 63.156 | 63.485 | 71.567 | 63.882 | 57.873 | 69.975 | 35.1678 | 31.2318 | 34.9351 |
| 8 | 0 | 3 | 2 | 1 | 346.667 | 61.199 | 61.199 | 58.110 | 67.013 | 55.716 | 75.653 | 67.443 | 35.3063 | 28.3450 | 44.9937 |
| 9 | 100 | 3 | 2 | 1 | 240.000 | 46.802 | 46.802 | 37.076 | 50.165 | 43.471 | 54.260 | 33.828 | 25.3462 | 21.7167 | 26.6786 |
| 10 | 0 | 5 | 2 | 2 | 493.333 | 83.411 | 83.411 | 83.666 | 72.676 | 93.761 | 99.552 | 98.174 | 40.5807 | 47.2781 | 40.6786 |
| 11 | 100 | 5 | 2 | 2 | 326.667 | 56.596 | 56.596 | 50.233 | 54.279 | 61.443 | 75.830 | 62.153 | 26.4134 | 24.8628 | 23.7682 |
| 12 | 0 | 1 | 2 | 3 | 486.667 | 112.073 | 112.073 | 99.907 | 112.065 | 127.209 | 132.173 | 118.891 | 50.0434 | 41.7575 | 47.7186 |
| 13 | 0 | 4 | 2 | 4 | 720.000 | 105.432 | 105.432 | 110.097 | 99.588 | 117.896 | 120.353 | 113.158 | 57.4055 | 46.2744 | 63.9738 |
| 14 | 100 | 4 | 2 | 4 | 50.000 | 14.370 | 14.370 | . | 16.168 | 11.170 | 15.001 | 10.147 | 6.4690 | . | 8.3201 |
| 15 | 0 | 2 | 3 | 1 | 353.333 | 49.411 | 49.411 | 71.366 | 47.499 | 58.322 | 55.001 | 61.416 | 33.8839 | 48.3832 | 26.6628 |
| 16 | 100 | 2 | 3 | 1 | 53.333 | 11.152 | 11.152 | 10.963 | . | 4.890 | 14.103 | 17.606 | 8.9344 | 5.9718 | . |
| 17 | 0 | 5 | 3 | 2 | 466.667 | 65.417 | 65.417 | 75.701 | 92.503 | 81.985 | 66.671 | 82.061 | 50.3942 | 47.6054 | 61.1527 |
| 18 | 100 | 5 | 3 | 2 | 226.667 | 41.758 | 41.758 | 41.334 | 64.317 | 40.403 | 48.065 | 33.737 | 28.9367 | 25.1884 | 37.5103 |
| 19 | 0 | 3 | 3 | 3 | 326.667 | 38.069 | 38.069 | 42.755 | 36.673 | 44.373 | 61.059 | 57.787 | 28.1699 | 26.7068 | 22.2571 |
| 20 | 100 | 3 | 3 | 3 | 153.333 | 22.376 | 22.376 | 30.194 | 26.311 | 22.504 | 22.498 | 19.736 | 15.4195 | 21.9753 | 15.1868 |
| 21 | 0 | 4 | 3 | 4 | 413.333 | 52.859 | 52.859 | 48.787 | 56.387 | 82.826 | 74.032 | 58.485 | 39.9909 | 33.4732 | 37.0680 |
| 22 | 100 | 4 | 3 | 4 | 73.333 | 16.448 | 16.448 | 26.277 | 19.046 | 11.269 | 26.893 | 20.738 | 12.2250 | 13.9966 | 17.6802 |
| 23 | 0 | 1 | 3 | 5 | 613.333 | 58.768 | 58.768 | 54.768 | 66.520 | 62.898 | 102.155 | 89.563 | 45.7071 | 31.2645 | 44.7753 |
| 24 | 0 | 5 | 4 | 1 | 393.333 | 30.534 | 30.534 | 32.046 | 43.658 | 39.279 | . | 42.938 | 22.3905 | 23.0379 | 24.7015 |

| OBS | T_SPBA94 | T_SPBA95 | T_SPBA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_CSAP92 | N_CSAP93 | N_CSAP94 | N_CSAP95 | N_CSAP97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 54.9197 | 50.4217 | 61.5127 | -15.1118 | -15.0220 | -12.4676 | -13.4210 | 0.2046 | 11 | 10 | 10 | 10 | 10 |
| 2 | 30.4500 | 27.4333 | 23.7216 | -9.6156 | 8.7267 | -1.5519 | -14.7205 | -18.9932 | 6 | 7 | 8 | 6 | 6 |
| 3 | 17.4683 | 30.3530 | 16.2124 | -10.7164 | 2.6139 | -17.4365 | 42.6728 | -16.9581 | 5 | 3 | 2 | 4 | 4 |
| 4 | 69.8597 | 54.3982 | 62.1347 | -20.9069 | 0.2002 | 2.6173 | -16.4586 | 5.4239 | 13 | 12 | 9 | 11 | 11 |
| 5 | 12.6083 | 9.6107 | 10.0497 | . | . | 1.6284 | 38.0198 | . | 0 | 0 | 3 | 1 | 0 |
| 6 | 48.5380 | 56.0187 | 56.9038 | 10.3031 | -14.8640 | 6.5818 | 13.4425 | 1.8327 | 10 | 8 | 11 | 11 | 12 |
| 7 | 36.9896 | 41.0337 | 34.8805 | -0.0052 | -2.5676 | 5.5066 | 22.6744 | -7.6358 | 6 | 8 | 6 | 5 | 3 |
| 8 | 36.7367 | 45.5062 | 29.1811 | -3.2968 | 7.0717 | 16.5873 | 30.7352 | -2.6910 | 12 | 7 | 10 | 11 | 13 |
| 9 | 33.2371 | 34.9100 | 20.0227 | -20.0918 | -3.0427 | 7.1451 | 15.8370 | 9.5952 | 4 | 8 | 5 | 4 | 3 |
| 10 | 42.9157 | 58.9327 | 40.4911 | 15.0362 | 3.9742 | 1.6026 | 34.0996 | -12.9064 | 15 | 14 | 14 | 14 | 18 |
| 11 | 34.3995 | 48.9060 | 16.5336 | -10.1352 | -12.0249 | -4.7512 | 40.9205 | -4.2312 | 6 | 5 | 5 | 4 | 1 |
| 12 | 55.8726 | 65.8722 | 46.2110 | -6.4905 | -6.0013 | 2.2123 | 33.3220 | -4.5402 | 14 | 15 | 15 | 15 | 14 |
| 13 | 59.6297 | 54.6622 | 44.2535 | -18.9418 | 3.5445 | 3.4205 | 10.3592 | -20.0818 | 15 | 16 | 14 | 13 | 16 |
| 14 | 5.6503 | 8.6296 | . | . | . | -4.0741 | 32.6134 | . | 0 | 0 | 1 | 2 | 0 |
| 15 | 28.1827 | 16.9082 | 19.4577 | -3.9258 | -6.0247 | -5.7426 | -83.8033 | -43.1879 | 10 | 12 | 11 | 10 | 10 |
| 16 | 3.0106 | 6.6917 | 9.5554 | -14.7958 | . | -7.5893 | -39.0336 | -20.4647 | 3 | 0 | 1 | 2 | 2 |
| 17 | 45.1127 | 27.5815 | 38.8296 | -18.4830 | -8.5774 | -4.3929 | -59.1914 | -41.4305 | 15 | 12 | 13 | 15 | 15 |
| 18 | 22.6247 | 17.6041 | 16.1601 | -11.4851 | -2.2154 | -6.3143 | -36.2077 | -24.5387 | 6 | 9 | 8 | 6 | 5 |
| 19 | 26.0557 | 23.1712 | 27.7401 | -2.6101 | -6.2302 | -5.2853 | -53.5731 | -14.7192 | 11 | 8 | 11 | 9 | 12 |
| 20 | 12.7756 | 8.6170 | 7.1836 | -1.0136 | -6.7886 | -9.0051 | -31.9890 | -30.6835 | 4 | 7 | 3 | 4 | 3 |
| 21 | 50.6320 | 23.3808 | 24.2790 | -5.4657 | -3.3969 | -9.3807 | -58.3263 | -34.3883 | 13 | 13 | 11 | 13 | 12 |
| 22 | 6.6793 | 6.7833 | 10.1910 | -10.8635 | 4.2977 | -10.6305 | -44.3021 | -22.7507 | 2 | 2 | 4 | 1 | 2 |
| 23 | 39.1268 | 38.3228 | 42.3492 | -8.2177 | -0.7664 | -1.2834 | -37.5903 | -21.5748 | 19 | 19 | 18 | 19 | 19 |
| 24 | 17.3082 | . | 11.4556 | -2.1645 | -5.2472 | -9.2087 | . | -60.0919 | 11 | 11 | 11 | 0 | 13 |

| OBS | GRD_TREE | TREAT | BLOCK | PLOT | T_DEN | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 |
|-----|----------|-------|-------|------|---------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|
| 25 | 100 | 5 | 4 | 1 | 266.667 | 26.467 | 26.467 | 35.320 | 29.022 | 32.372 | . | 22.840 | 16.8889 | 20.1900 | 16.4202 |
| 26 | 0   | 3 | 4 | 2 | 346.667 | 21.693 | 21.693 | 26.133 | 26.261 | 25.300 | . | 31.121 | 17.6386 | 15.5433 | 19.1952 |
| 27 | 100 | 3 | 4 | 2 | 220.000 | 15.814 | 15.814 | 14.903 | 18.034 | 22.333 | . | 20.808 | 13.8306 | 12.8607 | 13.6786 |
| 28 | 0   | 4 | 4 | 3 | 673.333 | 36.864 | 36.864 | 42.744 | 47.800 | 57.980 | . | 65.044 | 28.5142 | 25.1428 | 29.1145 |
| 29 | 100 | 4 | 4 | 3 | 120.000 | 10.923 | 10.923 | 13.921 | 8.960  | 17.499 | . | 13.292 | 8.8511  | 8.5933  | 4.2607  |
| 30 | 0   | 2 | 4 | 4 | 473.333 | 31.241 | 31.241 | 41.695 | 40.189 | 47.249 | . | 54.768 | 24.0700 | 22.4321 | 20.0237 |
| 31 | 100 | 2 | 4 | 4 | 80.000  | 7.119  | 7.119  | 5.345  | 10.742 | 7.542  | . | 11.339 | 5.4700  | 3.2070  | 6.0067  |
| 32 | 0   | 1 | 4 | 5 | 746.667 | 36.248 | 36.248 | 39.055 | 40.606 | 73.111 | . | 67.103 | 28.2950 | 22.1835 | 21.3053 |

| OBS | T_SPBA94 | T_SPBA95 | T_SPBA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_CSAP92 | N_CSAP93 | N_CSAP94 | N_CSAP95 | N_CSAP97 |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 25 | 14.2450 | . | 9.0048  | -4.0702 | -11.1698 | -10.4923 | . | -49.8177 | 9  | 9  | 9  | 0 | 6  |
| 26 | 13.0712 | . | 9.4252  | -5.4596 | 0.1657   | -7.2824  | . | -47.9223 | 12 | 13 | 9  | 0 | 6  |
| 27 | 12.2713 | . | 10.2513 | -2.7620 | -3.3180  | -14.9181 | . | -24.3959 | 5  | 4  | 7  | 0 | 11 |
| 28 | 26.5111 | . | 11.7215 | -4.3131 | -6.0696  | -6.5088  | . | -74.1188 | 20 | 23 | 22 | 0 | 22 |
| 29 | 7.5985  | . | 7.2429  | -6.1410 | -3.1250  | -41.7486 | . | -10.3563 | 4  | 1  | 3  | 0 | 3  |
| 30 | 23.4440 | . | 14.1297 | -6.5652 | -7.4991  | -6.0873  | . | -39.5599 | 16 | 14 | 15 | 0 | 12 |
| 31 | 4.9151  | . | 5.4987  | -3.1621 | -11.6602 | -2.8750  | . | -8.7054  | 1  | 3  | 2  | 0 | 4  |
| 32 | 41.9430 | . | 21.9215 | -3.9670 | -4.9354  | -3.0909  | . | -31.7609 | 23 | 23 | 22 | 0 | 23 |

```
options ls=132 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
if grd_tree<2 ; grd_tree=grd_tree*100;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
drop stat92x;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
drop stat93x;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
proc sort; by block plot tag;


data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
if tag;
ba90 = (dbh90**2)* .005454;
ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;

woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;

csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;

TITLE "Status=1";
if stat92 ne 1 then csapba92=.;
if stat93 ne 1 then csapba93=.;
if stat94 ne 1 then csapba94=.;
if stat95 ne 1 then csapba95=.;
if stat97 ne 1 then csapba97=.;
```

```
proc sort; by block plot grd_tree;
proc means noprint nway; var  ba90--ba97 dbh91--crnht97
 sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
 output out=mean mean=
  n(csapba92--csapba97)=n_csap92-n_csap95 n_csap97; by block plot grd_tree;

libname save '.';
data save.meangrd; set mean;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
t_trees = _freq_;
hec= .15 * .404686;
acre=.15;
if block=2 and plot=4 then hec= .10 * .404686;
if block=1 and plot=3 then hec= .10 * .404686;
if block=2 and plot=4 then acre= .10;
if block=1 and plot=3 then acre= .10;

qmd90=sqrt(ba90/.005454);
qmd91=sqrt(ba91/.005454);
qmd92=sqrt(ba92/.005454);
qmd93=sqrt(ba93/.005454);
qmd94=sqrt(ba94/.005454);
qmd95=sqrt(ba95/.005454);
qmd97=sqrt(ba97/.005454);

t_den= t_trees/acre;

t_ba90=t_trees*ba90/acre;
t_ba91=t_trees*ba91/acre;
t_ba92=t_trees*ba92/acre;
t_ba93=t_trees*ba93/acre;
t_ba94=t_trees*ba94/acre;
t_ba95=t_trees*ba95/acre;
t_ba97=t_trees*ba97/acre;

t_spba91=t_trees*sap_ba91/acre;
t_spba92=t_trees*sap_ba92/acre;
t_spba93=t_trees*sap_ba93/acre;
t_spba94=t_trees*sap_ba94/acre;
t_spba95=t_trees*sap_ba95/acre;
t_spba97=t_trees*sap_ba97/acre;
```

```
proc print; var grd_tree treat block plot t_den--t_spba97 csapba92--csapba97
 n_csap92--n_csap97;
```

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12   TS045
　　. Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


　　 Welcome to SAS 6.12 TS-045!!   Installed February 1998.

　　 This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
　　 IML, INSIGHT, OR, QC, STAT and TUTOR options.

　　 The SAS software is for University use only, and may not be used
　　 for any commerical purposes.


NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
　　　 real time　　　　　 0.22 seconds
　　　 cpu time　　　　　　 0.10 seconds

NOTE: DM statements are only valid in DMS mode. .
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

```
1          options ls=132 ps=55;
2          data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
3          input block plot tag east north crown dbh90 rank grd_tree girdle;
4          if grd_tree<2 ; grd_tree=grd_tree*100;
```

NOTE: The infile '90.dat' is:
　　　 File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
　　　 Owner Name=zumbrunn,Group Name=ACD0003,
　　　 Access Permission=rw-------,
　　　 File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
　　　 The minimum record length was 20.
　　　 The maximum record length was 27.
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: DATA statement used:
　　　 real time　　　　　 0.38 seconds
　　　 cpu time　　　　　　 0.17 seconds


```
5          proc sort; by block plot tag;
```

NOTE: The data set WORK.T90 has 1520 observations and 10 variables.

2                                          The SAS System                              07:34 Monday, October 26, 1998

NOTE: PROCEDURE SORT used:
      real time          0.23 seconds
      cpu time           0.06 seconds


6          data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
7          input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
8          CRNTP91=STMLN91; drop CRNWD91;

NOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time          0.33 seconds
      cpu time           0.17 seconds


9          proc sort; by block plot tag;

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time          0.23 seconds
      cpu time           0.08 seconds


10         data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
11         input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 341 observations and 12 variables.
NOTE: DATA statement used:
      real time          0.18 seconds
      cpu time           0.06 seconds


12         proc sort; by block plot tag;

NOTE: The data set WORK.T92 has 341 observations and 12 variables.

```
NOTE: PROCEDURE SORT used:
      real time            0.14 seconds
      cpu time             0.02 seconds


13        data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
14        input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
15        sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
16        drop stat92x;

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.18 seconds
      cpu time             0.07 seconds


17        proc sort; by block plot tag;

NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.15 seconds
      cpu time             0.04 seconds


18        data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
19        input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
20        sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
21        drop stat93x;

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      3 at 20:12   3 at 20:32   3 at 20:51   3 at 20:67
NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.17 seconds
```

```
        cpu time            0.07 seconds


22          proc sort; by block plot tag;

NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.15 seconds
      cpu time            0.02 seconds


23          data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
24          input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
25          sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;

NOTE: The infile '95.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
      The minimum record length was 31.
      The maximum record length was 42.
NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.16 seconds
      cpu time            0.04 seconds


26          proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.13 seconds
      cpu time            0.02 seconds


27          data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
28          input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
29          sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;

NOTE: The infile '97.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=11868

NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
```

5                                            The SAS System                            07:34 Monday, October 26, 1998

```
         8 at 29:12    11 at 29:32    10 at 29:51    8 at 29:67
NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: DATA statement used:
      real time              0.17 seconds
      cpu time               0.07 seconds


30           proc sort; by block plot tag;
31


NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time              0.15 seconds
      cpu time               0.04 seconds


32           data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
33           if tag;
34           ba90 = (dbh90**2)* .005454;
35           ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
36           ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
37           ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;
38
39           woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454;, sap_ba91=woda91-hwa91;
40           woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
41           woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
42           woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
43           woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
44           woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;
45
46           csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
47           csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
48           csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
49           csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
50           csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
51
52           TITLE "Status=1";
53           if stat92 ne 1 then csapba92=.;
54           if stat93 ne 1 then csapba93=.;
55           if stat94 ne 1 then csapba94=.;
56           if stat95 ne 1 then csapba95=.;
57           if stat97 ne 1 then csapba97=.;
58
```

```
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=533 EAST=36 NORTH=8 CROWN=2 DBH90=5.6 RANK=3 GRD_TREE=100 GIRDLE=22 DBH91=5.6 HRT91=2.4 SAP91=0 RAD1091=0.15
RAD0591=0.05 STMLN91=37 CRNHT91=23 CRNTP91=37 STAT92=2 DBH92=5.3 HRT92=1.5 SAP92=0.9 RAD1092=0.05 RAD0592=0 STMLN92=37 CRNHT92=25
CRNTP92=37 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.15320286 BA93=. BA94=. BA95=. BA97=. WODA91=0.12566016
HWA91=0.12566016 SAP_BA91=0 WODA92=0.12566016 HWA92=0.049086 SAP_BA92=0.07657416 WODA93=0.12566016 HWA93=. SAP_BA93=.
WODA94=0.12566016 HWA94=. SAP_BA94=. WODA95=0.12566016 HWA95=. SAP_BA95=. WODA97=0.12566016 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
```

6                                          The SAS System                          07:34 Monday, October 26, 1998

CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=399
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=587 EAST=76 NORTH=49 CROWN=3 DBH90=4.1 RANK=3 GRD_TREE=100 GIRDLE=15 DBH91=4.1 HRT91=2 SAP91=0 RAD1091=0.2      ·
RAD0591=0.1 STMLN91=29 CRNHT91=13 CRNTP91=29 STAT92=2 DBH92=4.9 HRT92=0.95 SAP92=1.25 RAD1092=0.25 RAD0592=0.1 STMLN92=28 CRNHT92=15
CRNTP92=28 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.09168174 BA91=0.09168174 BA92=0.13095054 BA93=. BA94=. BA95=. BA97=. WODA91=0.087264
HWA91=0.087264 SAP_BA91=0 WODA92=0.087264 HWA92=0.01968894 SAP_BA92=0.06757506 WODA93=0.087264 HWA93=. SAP_BA93=. WODA94=0.087264
HWA94=. SAP_BA94=. WODA95=0.087264 HWA95=. SAP_BA95=. WODA97=0.087264 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=. CSAPBA94=. CSAPBA95=.
CSAPBA97=. _ERROR_=1 _N_=443
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=601 EAST=70 NORTH=24 CROWN=2 DBH90=5.6 RANK=4 GRD_TREE=100 GIRDLE=21 DBH91=5.6 HRT91=2.3 SAP91=0 RAD1091=0.1
RAD0591=0.05 STMLN91=36 CRNHT91=15 CRNTP91=36 STAT92=2 DBH92=4.4 HRT92=1.25 SAP92=1.05 RAD1092=0.15 RAD0592=0.05 STMLN92=36
CRNHT92=15 CRNTP92=36 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=.
SAP94=. RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=.
CRNTP95=. STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.10558944 BA93=. BA94=. BA95=. BA97=. WODA91=0.11540664
HWA91=0.11540664 SAP_BA91=0 WODA92=0.11540664 HWA92=0.0340875 SAP_BA92=0.08131914 WODA93=0.11540664 HWA93=. SAP_BA93=.
WODA94=0.11540664 HWA94=. SAP_BA94=. WODA95=0.11540664 HWA95=. SAP_BA95=. WODA97=0.11540664 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=454
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=602 EAST=67 NORTH=22 CROWN=2 DBH90=6.5 RANK=1 GRD_TREE=100 GIRDLE=25 DBH91=6.5 HRT91=2.9 SAP91=0 RAD1091=0.25
RAD0591=0.1 STMLN91=40 CRNHT91=21 CRNTP91=40 STAT92=2 DBH92=6.3 HRT92=1.75 SAP92=0.9 RAD1092=0.15 RAD0592=0.05 STMLN92=40 CRNHT92=23
CRNTP92=40 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.2304315 BA91=0.2304315 BA92=0.21646926 BA93=. BA94=. BA95=. BA97=. WODA91=0.18347256
HWA91=0.18347256 SAP_BA91=0 WODA92=0.18347256 HWA92=0.0668115 SAP_BA92=0.11666106 WODA93=0.18347256 HWA93=. SAP_BA93=.
WODA94=0.18347256 HWA94=. SAP_BA94=. WODA95=0.18347256 HWA95=. SAP_BA95=. WODA97=0.18347256 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=455
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1179 at 35:42    1179 at 35:46    1195 at 36:14    1195 at 36:18    1218 at 36:42    1218 at 36:46    1325 at 37:14
      1325 at 37:18 ·  1216 at 37:42    1216 at 37:46    1179 at 40:47    1179 at 40:54    1179 at 40:58    1179 at 40:84
      1195 at 41:47    1195 at 41:54    1195 at 41:58    1195 at 41:84    1218 at 42:47    1218 at 42:54    1218 at 42:58
      1218 at 42:84    1324 at 43:47    1324 at 43:54    1324 at 43:58    1324 at 43:84    1224 at 44:47    1224 at 44:54
      1224 at 44:58    1224 at 44:84    1179 at 46:19    1179 at 46:29    1183 at 46:38    1195 at 47:19    1195 at 47:29
      1195 at 47:38    1218 at 48:19    1218 at 48:29    1218 at 48:38    1324 at 49:19    1324 at 49:29    1324 at 49:38
      1224 at 50:19    1224 at 50:29    1224 at 50:38
NOTE: Mathematical operations could not be performed at the following places. The results of the operations have been set to
      missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      4 at 46:29
NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
NOTE: DATA statement used:
      real time           2.10 seconds
      cpu time            1.11 seconds


59        proc sort; by block plot grd_tree;

NOTE: The data set WORK.ALL has 1520 observations and 93 variables.

7                                                  The SAS System                                    07:34 Monday, October 26, 1998

NOTE: PROCEDURE SORT used:
      real time          0.71 seconds
      cpu time           0.19 seconds


```
60          proc means noprint nway; var  ba90--ba97 dbh91--crnht97
61            sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
62            output out=mean mean=
63             n(csapba92--csapba97)=n_csap92-n_csap95 n_csap97; by block plot grd_tree;
64
65          libname save '.';
```
NOTE: Libref SAVE was successfully assigned as follows:
      Engine:         V612
      Physical Name: /a/zumbrunn/jobs/jacobi/opt


NOTE: The data set WORK.MEAN has 32 observations and 81 variables.
NOTE: PROCEDURE MEANS used:
      real time          0.27 seconds
      cpu time           0.13 seconds


```
66          data save.meangrd; set mean;
67          if block=1 and plot=1 then treat=1;
68          if block=1 and plot=2 then treat=3;
69          if block=1 and plot=3 then treat=4;
70          if block=1 and plot=4 then treat=5;
71          if block=2 and plot=1 then treat=3;
72          if block=2 and plot=2 then treat=5;
73          if block=2 and plot=3 then treat=1;
74          if block=2 and plot=4 then treat=4;
75          if block=3 and plot=1 then treat=2;
76          if block=3 and plot=2 then treat=5;
77          if block=3 and plot=3 then treat=3;
78          if block=3 and plot=4 then treat=4;
79          if block=3 and plot=5 then treat=1;
80          if block=4 and plot=1 then treat=5;
81          if block=4 and plot=2 then treat=3;
82          if block=4 and plot=3 then treat=4;
83          if block=4 and plot=4 then treat=2;
84          if block=4 and plot=5 then treat=1;
85          t_trees = _freq_;
86          hec= .15 * .404686;
87          acre=.15;
88          if block=2 and plot=4 then hec= .10 * .404686;
89          if block=1 and plot=3 then hec= .10 * .404686;
90          if block=2 and plot=4 then acre= .10;
91          if block=1 and plot=3 then acre= .10;
92
93          qmd90=sqrt(ba90/.005454);
94          qmd91=sqrt(ba91/.005454);
95          qmd92=sqrt(ba92/.005454);
96          qmd93=sqrt(ba93/.005454);
97          qmd94=sqrt(ba94/.005454);
```

```
98         qmd95=sqrt(ba95/.005454);
99         qmd97=sqrt(ba97/.005454);
100                  .
101        t_den= t_trees/acre;
102
103        t_ba90=t_trees*ba90/acre;
104        t_ba91=t_trees*ba91/acre;
105        t_ba92=t_trees*ba92/acre;
106        t_ba93=t_trees*ba93/acre;
107        t_ba94=t_trees*ba94/acre;
108   .    t_ba95=t_trees*ba95/acre;
109        t_ba97=t_trees*ba97/acre;
110
111        t_spba91=t_trees*sap_ba91/acre;
112        t_spba92=t_trees*sap_ba92/acre;
113        t_spba93=t_trees*sap_ba93/acre;
114        t_spba94=t_trees*sap_ba94/acre;
115        t_spba95=t_trees*sap_ba95/acre;
116        t_spba97=t_trees*sap_ba97/acre;
117
```

NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1 at 95:7    1 at 95:16    1 at 96:7    1 at 96:16    9 at 98:7    9 at 98:16    1 at 105:15    1 at 105:20    1 at 106:15
      1 at 106:20    9 at 108:15    9 at 108:20    1 at 112:17    1 at 112:26    1 at 113:17    1 at 113:26    9 at 115:17    9 at 115:26
      1 at 116:17    1 at 116:26
NOTE: The data set SAVE.MEANGRD has 32 observations and 106 variables.
NOTE: DATA statement used:
      real time           1.57 seconds
      cpu time            0.11 seconds


```
118        proc print; var grd_tree treat block plot t_den--t_spba97 csapba92--csapba97
119          n_csap92--n_csap97;
```
NOTE: The PROCEDURE PRINT printed pages 1-2.
NOTE: PROCEDURE PRINT used:
      real time           0.12 seconds
      cpu time            0.04 seconds


NOTE: The SAS System used:
      real time           7.85 seconds
      cpu time            2.63 seconds

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

| OBS | GRD_TREE | TREAT | BLOCK | PLOT | T_DEN | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 |
|-----|----------|-------|-------|------|-------|--------|--------|--------|--------|--------|--------|--------|----------|----------|----------|
| 1 | 0 | 1 | 1 | 1 | 346.667 | 97.869 | 97.869 | 94.943 | 109.403 | 97.709 | 116.671 | 106.769 | 60.7565 | 50.1167 | 51.0948 |
| 2 | 0 | 3 | 1 | 2 | 220.000 | 59.580 | 59.580 | 53.439 | 68.037 | 66.385 | 72.769 | 64.034 | 28.6542 | 18.6721 | 38.4013 |
| 3 | 100 | 3 | 1 | 2 | 146.667 | 41.734 | 41.734 | 41.257 | 44.825 | 39.930 | 39.514 | 37.482 | 20.6565 | 16.8774 | 25.6761 |
| 4 | 0 | 4 | 1 | 3 | 550.000 | 111.149 | 111.149 | 118.571 | 106.102 | 131.397 | 116.181 | 121.030 | 61.0433 | 56.4636 | 58.2617 |
| 5 | 100 | 4 | 1 | 3 | 70.000 | 19.831 | 19.831 | 15.153 | 14.676 | 19.481 | 17.050 | 17.032 | 12.5731 | 6.1848 | 5.6198 |
| 6 | 0 | 5 | 1 | 4 | 360.000 | 94.354 | 94.354 | 89.391 | 108.271 | 90.902 | 112.707 | 109.072 | 49.5321 | 44.9471 | 54.4904 |
| 7 | 100 | 5 | 1 | 4 | 240.000 | 63.156 | 63.156 | 63.485 | 71.567 | 63.882 | 57.873 | 69.975 | 35.1678 | 31.2318 | 34.9351 |
| 8 | 0 | 3 | 2 | 1 | 346.667 | 61.199 | 61.199 | 58.110 | 67.013 | 55.716 | 75.653 | 67.443 | 35.3063 | 28.3450 | 44.9937 |
| 9 | 100 | 3 | 2 | 1 | 240.000 | 46.802 | 46.802 | 37.076 | 50.165 | 43.471 | 54.260 | 33.828 | 25.3462 | 21.7167 | 26.6786 |
| 10 | 0 | 5 | 2 | 2 | 493.333 | 83.411 | 83.411 | 83.666 | 72.676 | 93.761 | 99.552 | 98.174 | 40.5807 | 47.2781 | 40.6786 |
| 11 | 100 | 5 | 2 | 2 | 326.667 | 56.596 | 56.596 | 50.233 | 54.279 | 61.443 | 75.830 | 62.153 | 26.4134 | 24.8628 | 23.7682 |
| 12 | 0 | 1 | 2 | 3 | 486.667 | 112.073 | 112.073 | 99.907 | 112.065 | 127.209 | 132.173 | 118.891 | 50.0434 | 41.7575 | 47.7186 |
| 13 | 0 | 4 | 2 | 4 | 720.000 | 105.432 | 105.432 | 110.097 | 99.588 | 117.896 | 120.353 | 113.158 | 57.4055 | 46.2744 | 63.9738 |
| 14 | 100 | 4 | 2 | 4 | 50.000 | 14.370 | 14.370 | . | 16.168 | 11.170 | 15.001 | 10.147 | 6.4690 | . | 8.3201 |
| 15 | 0 | 2 | 3 | 1 | 353.333 | 49.411 | 49.411 | 71.366 | 47.499 | 58.322 | 55.001 | 61.416 | 33.8839 | 48.3832 | 26.6628 |
| 16 | 100 | 2 | 3 | 1 | 53.333 | 11.152 | 11.152 | 10.963 | . | 4.890 | 14.103 | 17.606 | 8.9344 | 5.9718 | . |
| 17 | 0 | 5 | 3 | 2 | 466.667 | 65.417 | 65.417 | 75.701 | 92.503 | 81.985 | 66.671 | 82.061 | 50.3942 | 47.6054 | 61.1527 |
| 18 | 100 | 5 | 3 | 2 | 226.667 | 41.758 | 41.758 | 41.334 | 64.317 | 40.403 | 48.065 | 33.737 | 28.9367 | 25.1884 | 37.5103 |
| 19 | 0 | 3 | 3 | 3 | 326.667 | 38.069 | 38.069 | 42.755 | 36.673 | 44.373 | 61.059 | 57.787 | 28.1699 | 26.7068 | 22.2571 |
| 20 | 100 | 3 | 3 | 3 | 153.333 | 22.376 | 22.376 | 30.194 | 26.311 | 22.504 | 22.498 | 19.736 | 15.4195 | 21.9753 | 15.1868 |
| 21 | 0 | 4 | 3 | 4 | 413.333 | 52.859 | 52.859 | 48.787 | 56.387 | 82.826 | 74.032 | 58.485 | 39.9909 | 33.4732 | 37.0680 |
| 22 | 100 | 4 | 3 | 4 | 73.333 | 16.448 | 16.448 | 26.277 | 19.046 | 11.269 | 26.893 | 20.738 | 12.2250 | 13.9966 | 17.6802 |
| 23 | 0 | 1 | 3 | 5 | 613.333 | 58.768 | 58.768 | 54.768 | 66.520 | 62.898 | 102.155 | 89.563 | 45.7071 | 31.2645 | 44.7753 |
| 24 | 0 | 5 | 4 | 1 | 393.333 | 30.534 | 30.534 | 32.046 | 43.658 | 39.279 | . | 42.938 | 22.3905 | 23.0379 | 24.7015 |

| OBS | T_SPBA94 | T_SPBA95 | T_SPBA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_CSAP92 | N_CSAP93 | N_CSAP94 | N_CSAP95 | N_CSAP97 |
|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | 54.9197 | 50.4217 | 61.5127 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 2 | 30.4500 | 27.4333 | 23.7216 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 3 | 17.4683 | 30.3530 | 16.2124 | -0.0568 | . | . | . | . | 2 | 0 | 0 | 0 | 0 |
| 4 | 69.8597 | 54.3982 | 62.1347 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 5 | 12.6083 | 9.6107 | 10.0497 | -24.0150 | -30.9568 | -49.9531 | -8.3021 | -2.7211 | 1 | 1 | 1 | 1 | 3 |
| 6 | 48.5380 | 56.0187 | 56.9038 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 7 | 36.9896 | 41.0337 | 34.8805 | 17.4209 | -67.2269 | . | . | -8.9286 | 2 | 1 | 0 | 0 | 1 |
| 8 | 36.7367 | 45.5062 | 29.1811 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 9 | 33.2371 | 34.9100 | 20.0227 | -26.8817 | . | . | . | . | 1 | 0 | 0 | 0 | 0 |
| 10 | 42.9157 | 58.9327 | 40.4911 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 11 | 34.3995 | 48.9060 | 16.5336 | -55.6545 | . | . | 28.0505 | . | 2 | 0 | 0 | 1 | 0 |
| 12 | 55.8726 | 65.8722 | 46.2110 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 13 | 59.6297 | 54.6622 | 44.2535 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 14 | 5.6503 | 8.6296 | . | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 15 | 28.1827 | 16.9082 | 19.4577 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 16 | 3.0106 | .6.6917 | 9.5554 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 17 | 45.1127 | 27.5815 | 38.8296 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 18 | 22.6247 | 17.6041 | 16.1601 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 19 | 26.0557 | 23.1712 | 27.7401 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 20 | 12.7756 | 8.6170 | 7.1836 | . | . | . | -10.0000 | . | 0 | 0 | 0 | 1 | 0 |
| 21 | 50.6320 | 23.3808 | 24.2790 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 22 | 6.6793 | 6.7833 | 10.1910 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 23 | 39.1268 | 38.3228 | 42.3492 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 24 | 17.3082 | . | 11.4556 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |

| OBS | GRD_TREE | TREAT | BLOCK | PLOT | T_DEN | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 100 | 5 | 4 | 1 | 266.667 | 26.467 | 26.467 | 35.320 | 29.022 | 32.372 | . | 22.840 | 16.8889 | 20.1900 | 16.4202 |
| 26 | 0 | 3 | 4 | 2 | 346.667 | 21.693 | 21.693 | 26.133 | 26.261 | 25.300 | . | 31.121 | 17.6386 | 15.5433 | 19.1952 |
| 27 | 100 | 3 | 4 | 2 | 220.000 | 15.814 | 15.814 | 14.903 | 18.034 | 22.333 | . | 20.808 | 13.8306 | 12.8607 | 13.6786 |
| 28 | 0 | 4 | 4 | 3 | 673.333 | 36.864 | 36.864 | 42.744 | 47.800 | 57.980 | . | 65.044 | 28.5142 | 25.1428 | 29.1145 |
| 29 | 100 | 4 | 4 | 3 | 120.000 | 10.923 | 10.923 | 13.921 | 8.960 | 17.499 | . | 13.292 | 8.8511 | 8.5933 | 4.2607 |
| 30 | 0 | 2 | 4 | 4 | 473.333 | 31.241 | 31.241 | 41.695 | 40.189 | 47.249 | . | 54.768 | 24.0700 | 22.4321 | 20.0237 |
| 31 | 100 | 2 | 4 | 4 | 80.000 | 7.119 | 7.119 | 5.345 | 10.742 | 7.542 | . | 11.339 | 5.4700 | 3.2070 | 6.0067 |
| 32 | 0 | 1 | 4 | 5 | 746.667 | 36.248 | 36.248 | 39.055 | 40.606 | 73.111 | . | 67.103 | 28.2950 | 22.1835 | 21.3053 |

| OBS | T_SPBA94 | T_SPBA95 | T_SPBA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_CSAP92 | N_CSAP93 | N_CSAP94 | N_CSAP95 | N_CSAP97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 14.2450 | . | 9.0048 | . | . | . | . | -23.6818 | 0 | 0 | 0 | 0 | 1 |
| 26 | 13.0712 | . | 9.4252 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 27 | 12.2713 | . | 10.2513 | 2.8571 | -3.2764 | . | . | . | 1 | 3 | 0 | 0 | 0 |
| 28 | 26.5111 | . | 11.7215 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 29 | 7.5985 | . | 7.2429 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 30 | 23.4440 | . | 14.1297 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 31 | 4.9151 | . | 5.4987 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 32 | 41.9430 | . | 21.9215 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |

```
options ls=132 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
if grd_tree<2 ; grd_tree=grd_tree*100;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
drop stat92x;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
drop stat93x;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
proc sort; by block plot tag;

data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
if tag;
ba90 = (dbh90**2)* .005454;
ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;

woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;

csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;

TITLE "Status=2";
if stat92 ne 2 then csapba92=.;
if stat93 ne 2 then csapba93=.;
if stat94 ne 2 then csapba94=.;
if stat95 ne 2 then csapba95=.;
if stat97 ne 2 then csapba97=.;
```

```
proc sort; by block plot grd_tree;
proc means noprint nway; var  ba90--ba97 dbh91--crnht97
 sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
 output out=mean mean=
  n(csapba92--csapba97)=n_csap92-n_csap95 n_csap97; by block plot grd_tree;

libname save '.';
data save.meangrd; set mean;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
t_trees = _freq_;
hec= .15 * .404686;
acre=.15;
if block=2 and plot=4 then hec= .10 * .404686;
if block=1 and plot=3 then hec= .10 * .404686;
if block=2 and plot=4 then acre= .10;
if block=1 and plot=3 then acre= .10;

qmd90=sqrt(ba90/.005454);
qmd91=sqrt(ba91/.005454);
qmd92=sqrt(ba92/.005454);
qmd93=sqrt(ba93/.005454);
qmd94=sqrt(ba94/.005454);
qmd95=sqrt(ba95/.005454);
qmd97=sqrt(ba97/.005454);

t_den= t_trees/acre;

t_ba90=t_trees*ba90/acre;
t_ba91=t_trees*ba91/acre;
t_ba92=t_trees*ba92/acre;
t_ba93=t_trees*ba93/acre;
t_ba94=t_trees*ba94/acre;
t_ba95=t_trees*ba95/acre;
t_ba97=t_trees*ba97/acre;

t_spba91=t_trees*sap_ba91/acre;
t_spba92=t_trees*sap_ba92/acre;
t_spba93=t_trees*sap_ba93/acre;
t_spba94=t_trees*sap_ba94/acre;
t_spba95=t_trees*sap_ba95/acre;
t_spba97=t_trees*sap_ba97/acre;
```

```
proc print; var grd_tree treat block plot t_den--t_spba97 csapba92--csapba97
 n_csap92--n_csap97;
```

1                                                    The SAS System                                    07:33 Monday, October 26, 1998

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12  TS045
      Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


    Welcome to SAS 6.12 TS-045!!  Installed February 1998.

    This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
    IML, INSIGHT, OR, QC, STAT and TUTOR options.

    The SAS software is for University use only, and may not be used
    for any commerical purposes.



NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
      real time          0.20 seconds
      cpu time           0.11 seconds

NOTE: DM statements are only valid in DMS mode.
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

1              options ls=132 ps=55;
2              data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
3              input block plot tag east north crown dbh90 rank grd_tree girdle;
4              if grd_tree<2 ; grd_tree=grd_tree*100;

NOTE: The infile '90.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
      The minimum record length was 20.
      The maximum record length was 27.
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: DATA statement used:
      real time          0.36 seconds
      cpu time           0.16 seconds


5          proc sort; by block plot tag;

NOTE: The data set WORK.T90 has 1520 observations and 10 variables.

2                              The SAS System                          07:33 Monday, October 26, 1998

```
NOTE: PROCEDURE SORT used:
      real time            0.24 seconds
      cpu time             0.06 seconds


6          data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
7          input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
8          CRNTP91=STMLN91; drop CRNWD91;

NOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time            0.31 seconds
      cpu time             0.15 seconds


9          proc sort; by block plot tag;

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time            0.22 seconds
      cpu time             0.07 seconds


10         data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
11         input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 341 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.19 seconds
      cpu time             0.07 seconds


12         proc sort; by block plot tag;

NOTE: The data set WORK.T92 has 341 observations and 12 variables.
```

NOTE: PROCEDURE SORT used:
      real time            0.15 seconds
      cpu time             0.02 seconds


13        data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
14        input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
15        sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
16        drop stat92x;

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.21 seconds
      cpu time             0.07 seconds


17        proc sort; by block plot tag;

NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.15 seconds
      cpu time             0.02 seconds


18        data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
19        input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
20        sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
21        drop stat93x;

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      3 at 20:12   3 at 20:32   3 at 20:51   3 at 20:67
NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.18 seconds

```
        cpu time             0.05 seconds


22        proc sort; by block plot tag;

NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.13 seconds
      cpu time             0.04 seconds


23        data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
24        input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
25        sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;

NOTE: The infile '95.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
      The minimum record length was 31.
      The maximum record length was 42.
NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.16 seconds
      cpu time             0.04 seconds


26        proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.13 seconds
      cpu time             0.03 seconds


27        data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
28        input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
29        sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;

NOTE: The infile '97.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=11868

NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
```

```
        8 at 29:12    11 at 29:32    10 at 29:51    8 at 29:67
NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.19 seconds
      cpu time            0.07 seconds


30        proc sort; by block plot tag;
31


NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.15 seconds
      cpu time            0.02 seconds


32        data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
33        if tag;
34        ba90 = (dbh90**2)* .005454;
35        ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
36        ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
37        ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;
38
39        woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
40        woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
41        woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
42        woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
43        woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
44        woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;
45
46        csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
47        csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
48        csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
49        csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
50        csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
51
52        TITLE "Status=2";
53        if stat92 ne 2 then csapba92=.;
54        if stat93 ne 2 then csapba93=.;
55        if stat94 ne 2 then csapba94=.;
56        if stat95 ne 2 then csapba95=.;
57        if stat97 ne 2 then csapba97=.;
58


NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=533 EAST=36 NORTH=8 CROWN=2 DBH90=5.6 RANK=3 GRD_TREE=100 GIRDLE=22 DBH91=5.6 HRT91=2.4 SAP91=0 RAD1091=0.15
RAD0591=0.05 STMLN91=37 CRNHT91=23 CRNTP91=37 STAT92=2 DBH92=5.3 HRT92=1.5 SAP92=0.9 RAD1092=0.05 RAD0592=0 STMLN92=37 CRNHT92=25
CRNTP92=37 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.15320286 BA93=. BA94=. BA95=. BA97=. WODA91=0.12566016
HWA91=0.12566016 SAP_BA91=0 WODA92=0.12566016 HWA92=0.049086 SAP_BA92=0.07657416 WODA93=0.12566016 HWA93=. SAP_BA93=.
WODA94=0.12566016 HWA94=. SAP_BA94=. WODA95=0.12566016 HWA95=. SAP_BA95=. WODA97=0.12566016 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
```

CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=399
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=587 EAST=76 NORTH=49 CROWN=3 DBH90=4.1 RANK=3 GRD_TREE=100 GIRDLE=15 DBH91=4.1 HRT91=2 SAP91=0 RAD1091=0.2
RAD0591=0.1 STMLN91=29 CRNHT91=13 CRNTP91=29 STAT92=2 DBH92=4.9 HRT92=0.95 SAP92=1.25 RAD1092=0.25 RAD0592=0.1 STMLN92=28 CRNHT92=15
CRNTP92=28 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.09168174 BA91=0.09168174 BA92=0.13095054 BA93=. BA94=. BA95=. BA97=. WODA91=0.087264
HWA91=0.087264 SAP_BA91=0 WODA92=0.087264 HWA92=0.01968894 SAP_BA92=0.06757506 WODA93=0.087264 HWA93=. SAP_BA93=. WODA94=0.087264
HWA94=. SAP_BA94=. WODA95=0.087264 HWA95=. SAP_BA95=. WODA97=0.087264 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=. CSAPBA94=. CSAPBA95=.
CSAPBA97=. _ERROR_=1 _N_=443
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=601 EAST=70 NORTH=24 CROWN=2 DBH90=5.6 RANK=4 GRD_TREE=100 GIRDLE=21 DBH91=5.6 HRT91=2.3 SAP91=0 RAD1091=0.1
RAD0591=0.05 STMLN91=36 CRNHT91=15 CRNTP91=36 STAT92=2 DBH92=4.4 HRT92=1.25 SAP92=1.05 RAD1092=0.15 RAD0592=0.05 STMLN92=36
CRNHT92=15 CRNTP92=36 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=.
SAP94=. RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=.
CRNTP95=. STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.10558944 BA93=. BA94=. BA95=. BA97=. WODA91=0.11540664
HWA91=0.11540664 SAP_BA91=0 WODA92=0.11540664 HWA92=0.0340875 SAP_BA92=0.08131914 WODA93=0.11540664 HWA93=. SAP_BA93=.
WODA94=0.11540664 HWA94=. SAP_BA94=. WODA95=0.11540664 HWA95=. SAP_BA95=. WODA97=0.11540664 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=454
NOTE: Division by zero detected at line 46 column 29.
BLOCK=2 PLOT=2 TAG=602 EAST=67 NORTH=22 CROWN=2 DBH90=6.5 RANK=1 GRD_TREE=100 GIRDLE=25 DBH91=6.5 HRT91=2.9 SAP91=0 RAD1091=0.25
RAD0591=0.1 STMLN91=40 CRNHT91=21 CRNTP91=40 STAT92=2 DBH92=6.3 HRT92=1.75 SAP92=0.9 RAD1092=0.15 RAD0592=0.05 STMLN92=40 CRNHT92=23
CRNTP92=40 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.2304315 BA91=0.2304315 BA92=0.21646926 BA93=. BA94=. BA95=. BA97=. WODA91=0.18347256
HWA91=0.18347256 SAP_BA91=0 WODA92=0.18347256 HWA92=0.0668115 SAP_BA92=0.11666106 WODA93=0.18347256 HWA93=. SAP_BA93=.
WODA94=0.18347256 HWA94=. SAP_BA94=. WODA95=0.18347256 HWA95=. SAP_BA95=. WODA97=0.18347256 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=455
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1179 at 35:42     1179 at 35:46     1195 at 36:14     1195 at 36:18     1218 at 36:42     1218 at 36:46     1325 at 37:14
      1325 at 37:18     1216 at 37:42     1216 at 37:46     1179 at 40:47     1179 at 40:54     1179 at 40:58     1179 at 40:84
      1195 at 41:47     1195 at 41:54     1195 at 41:58     1195 at 41:84     1218 at 42:47     1218 at 42:54     1218 at 42:58
      1218 at 42:84     1324 at 43:47     1324 at 43:54     1324 at 43:58     1324 at 43:84     1224 at 44:47     1224 at 44:54
      1224 at 44:58     1224 at 44:84     1179 at 46:19     1179 at 46:29     1183 at 46:38     1195 at 47:19     1195 at 47:29
      1195 at 47:38     1218 at 48:19     1218 at 48:29     1218 at 48:38     1324 at 49:19     1324 at 49:29     1324 at 49:38
      1224 at 50:19     1224 at 50:29     1224 at 50:38
NOTE: Mathematical operations could not be performed at the following places. The results of the operations have been set to
      missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      4 at 46:29
NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
NOTE: DATA statement used:
      real time           1.96 seconds
      cpu time            1.09 seconds


59        proc sort; by block plot grd_tree;

NOTE: The data set WORK.ALL has 1520 observations and 93 variables.

NOTE: PROCEDURE SORT used:
   real time                  0.71 seconds
   cpu time                   0.19 seconds


```
60          proc means noprint nway; var  ba90--ba97 dbh91--crnht97
61           sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
62           output out=mean mean=
63           n(csapba92--csapba97)=n_csap92-n_csap95 n_csap97; by block plot grd_tree;
64
65          libname save '.';
```
NOTE: Libref SAVE was successfully assigned as follows:
   Engine:          V612
   Physical Name: /a/zumbrunn/jobs/jacobi/opt

NOTE: The data set WORK.MEAN has 32 observations and 81 variables.
NOTE: PROCEDURE MEANS used:
   real time                  0.32 seconds
   cpu time                   0.12 seconds


```
66          data save.meangrd; set mean;
67          if block=1 and plot=1 then treat=1;
68          if block=1 and plot=2 then treat=3;
69          if block=1 and plot=3 then treat=4;
70          if block=1 and plot=4 then treat=5;
71          if block=2 and plot=1 then treat=3;
72          if block=2 and plot=2 then treat=5;
73          if block=2 and plot=3 then treat=1;
74          if block=2 and plot=4 then treat=4;
75          if block=3 and plot=1 then treat=2;
76          if block=3 and plot=2 then treat=5;
77          if block=3 and plot=3 then treat=3;
78          if block=3 and plot=4 then treat=4;
79          if block=3 and plot=5 then treat=1;
80          if block=4 and plot=1 then treat=5;
81          if block=4 and plot=2 then treat=3;
82          if block=4 and plot=3 then treat=4;
83          if block=4 and plot=4 then treat=2;
84          if block=4 and plot=5 then treat=1;
85          t_trees = _freq_;
86          hec= .15 * .404686;
87          acre=.15;
88          if block=2 and plot=4 then hec= .10 * .404686;
89          if block=1 and plot=3 then hec= .10 * .404686;
90          if block=2 and plot=4 then acre= .10;
91          if block=1 and plot=3 then acre= .10;
92
93          qmd90=sqrt(ba90/.005454);
94          qmd91=sqrt(ba91/.005454);
95          qmd92=sqrt(ba92/.005454);
96          qmd93=sqrt(ba93/.005454);
97          qmd94=sqrt(ba94/.005454);
```

```
98          qmd95=sqrt(ba95/.005454);
99          qmd97=sqrt(ba97/.005454);
100
101         t_den= t_trees/acre;
102
103         t_ba90=t_trees*ba90/acre;
104         t_ba91=t_trees*ba91/acre;
105         t_ba92=t_trees*ba92/acre;
106         t_ba93=t_trees*ba93/acre;
107         t_ba94=t_trees*ba94/acre;
108         t_ba95=t_trees*ba95/acre;
109         t_ba97=t_trees*ba97/acre;
110
111         t_spba91=t_trees*sap_ba91/acre;
112         t_spba92=t_trees*sap_ba92/acre;
113         t_spba93=t_trees*sap_ba93/acre;
114         t_spba94=t_trees*sap_ba94/acre;
115         t_spba95=t_trees*sap_ba95/acre;
116         t_spba97=t_trees*sap_ba97/acre;
117
```

NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1 at 95:7      1 at 95:16     1 at 96:7      1 at 96:16     9 at 98:7      9 at 98:16     1 at 105:15    1 at 105:20    1 at 106:15
      1 at 106:20    9 at 108:15    9 at 108:20    1 at 112:17    1 at 112:26    1 at 113:17    1 at 113:26    9 at 115:17    9 at 115:26
      1 at 116:17    1 at 116:26
NOTE: The data set SAVE.MEANGRD has 32 observations and 106 variables.
NOTE: DATA statement used:
      real time          1.68 seconds
      cpu time           0.11 seconds


```
118         proc print; var grd_tree treat block plot t_den--t_spba97 csapba92--csapba97
119            n_csap92--n_csap97;
```
NOTE: The PROCEDURE PRINT printed pages 1-2.
NOTE: PROCEDURE PRINT used:
      real time     ·    0.09 seconds
      cpu time           0.04 seconds


NOTE: The SAS System used:
      real time          7.86 seconds
      cpu time           2.56 seconds

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

Status=2                                         07:33 Monday, October 26, 1998    1

| OBS | GRD_TREE | TREAT | BLOCK | PLOT | T_DEN | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 346.667 | 97.869 | 97.869 | 94.943 | 109.403 | 97.709 | 116.671 | 106.769 | 60.7565 | 50.1167 | 51.0948 |
| 2 | 0 | 3 | 1 | 2 | 220.000 | 59.580 | 59.580 | 53.439 | 68.037 | 66.385 | 72.769 | 64.034 | 28.6542 | 18.6721 | 38.4013 |
| 3 | 100 | 3 | 1 | 2 | 146.667 | 41.734 | 41.734 | 41.257 | 44.825 | 39.930 | 39.514 | 37.482 | 20.6565 | 16.8774 | 25.6761 |
| 4 | 0 | 4 | 1 | 3 | 550.000 | 111.149 | 111.149 | 118.571 | 106.102 | 131.397 | 116.181 | 121.030 | 61.0433 | 56.4636 | 58.2617 |
| 5 | 100 | 4 | 1 | 3 | 70.000 | 19.831 | 19.831 | 15.153 | 14.676 | 19.481 | 17.050 | 17.032 | 12.5731 | 6.1848 | 5.6198 |
| 6 | 0 | 5 | 1 | 4 | 360.000 | 94.354 | 94.354 | 89.391 | 108.271 | 90.902 | 112.707 | 109.072 | 49.5321 | 44.9471 | 54.4904 |
| 7 | 100 | 5 | 1 | 4 | 240.000 | 63.156 | 63.156 | 63.485 | 71.567 | 63.882 | 57.873 | 69.975 | 35.1678 | 31.2318 | 34.9351 |
| 8 | 0 | 3 | 2 | 1 | 346.667 | 61.199 | 61.199 | 58.110 | 67.013 | 55.716 | 75.653 | 67.443 | 35.3063 | 28.3450 | 44.9937 |
| 9 | 100 | 3 | 2 | 1 | 240.000 | 46.802 | 46.802 | 37.076 | 50.165 | 43.471 | 54.260 | 33.828 | 25.3462 | 21.7167 | 26.6786 |
| 10 | 0 | 5 | 2 | 2 | 493.333 | 83.411 | 83.411 | 83.666 | 72.676 | 93.761 | 99.552 | 98.174 | 40.5807 | 47.2781 | 40.6786 |
| 11 | 100 | 5 | 2 | 2 | 326.667 | 56.596 | 56.596 | 50.233 | 54.279 | 61.443 | 75.830 | 62.153 | 26.4134 | 24.8628 | 23.7682 |
| 12 | 0 | 1 | 2 | 3 | 486.667 | 112.073 | 112.073 | 99.907 | 112.065 | 127.209 | 132.173 | 118.891 | 50.0434 | 41.7575 | 47.7186 |
| 13 | 0 | 4 | 2 | 4 | 720.000 | 105.432 | 105.432 | 110.097 | 99.588 | 117.896 | 120.353 | 113.158 | 57.4055 | 46.2744 | 63.9738 |
| 14 | 100 | 4 | 2 | 4 | 50.000 | 14.370 | 14.370 | . | 16.168 | 11.170 | 15.001 | 10.147 | 6.4690 | . | 8.3201 |
| 15 | 0 | 2 | 3 | 1 | 353.333 | 49.411 | 49.411 | 71.366 | 47.499 | 58.322 | 55.001 | 61.416 | 33.8839 | 48.3832 | 26.6628 |
| 16 | 100 | 2 | 3 | 1 | 53.333 | 11.152 | 11.152 | 10.963 | . | 4.890 | 14.103 | 17.606 | 8.9344 | 5.9718 | . |
| 17 | 0 | 5 | 3 | 2 | 466.667 | 65.417 | 65.417 | 75.701 | 92.503 | 81.985 | 66.671 | 82.061 | 50.3942 | 47.6054 | 61.1527 |
| 18 | 100 | 5 | 3 | 2 | 226.667 | 41.758 | 41.758 | 41.334 | 64.317 | 40.403 | 48.065 | 33.737 | 28.9367 | 25.1884 | 37.5103 |
| 19 | 0 | 3 | 3 | 3 | 326.667 | 38.069 | 38.069 | 42.755 | 36.673 | 44.373 | 61.059 | 57.787 | 28.1699 | 26.7068 | 22.2571 |
| 20 | 100 | 3 | 3 | 3 | 153.333 | 22.376 | 22.376 | 30.194 | 26.311 | 22.504 | 22.498 | 19.736 | 15.4195 | 21.9753 | 15.1868 |
| 21 | 0 | 4 | 3 | 4 | 413.333 | 52.859 | 52.859 | 48.787 | 56.387 | 82.826 | 74.032 | 58.485 | 39.9909 | 33.4732 | 37.0680 |
| 22 | 100 | 4 | 3 | 4 | 73.333 | 16.448 | 16.448 | 26.277 | 19.046 | 11.269 | 26.893 | 20.738 | 12.2250 | 13.9966 | 17.6802 |
| 23 | 0 | 1 | 3 | 5 | 613.333 | 58.768 | 58.768 | 54.768 | 66.520 | 62.898 | 102.155 | 89.563 | 45.7071 | 31.2645 | 44.7753 |
| 24 | 0 | 5 | 4 | 1 | 393.333 | 30.534 | 30.534 | 32.046 | 43.658 | 39.279 | . | 42.938 | 22.3905 | 23.0379 | 24.7015 |

| OBS | T_SPBA94 | T_SPBA95 | T_SPBA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_CSAP92 | N_CSAP93 | N_CSAP94 | N_CSAP95 | N_CSAP97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 54.9197 | 50.4217 | 61.5127 | -67.2794 | . | . | . | . | 1 | 0 | 0 | 0 | 0 |
| 2 | 30.4500 | 27.4333 | 23.7216 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 3 | 17.4683 | 30.3530 | 16.2124 | -39.7059 | 6.4801 | 6.69311 | . | . | 2 | 3 | 2 | 0 | 0 |
| 4 | 69.8597 | 54.3982 | 62.1347 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 5 | 12.6083 | 9.6107 | 10.0497 | . | . | . | -27.2978 | . | 0 | 0 | 0 | 1 | 0 |
| 6 | 48.5380 | 56.0187 | 56.9038 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 7 | 36.9896 | 41.0337 | 34.8805 | -17.9556 | -0.6439 | -4.52768 | 0.0000 | . | 6 | 4 | 2 | 1 | 0 |
| 8 | 36.7367 | 45.5062 | 29.1811 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 9 | 33.2371 | 34.9100 | 20.0227 | 21.9728 | 26.4926 | . | . | . | 7 | 5 | 0 | 0 | 0 |
| 10 | 42.9157 | 58.9327 | 40.4911 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 11 | 34.3995 | 48.9060 | 16.5336 | 12.0783 | -14.4236 | -2.26829 | -3.8125 | . | 10 | 11 | 4 | 1 | 0 |
| 12 | 55.8726 | 65.8722 | 46.2110 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 13 | 59.6297 | 54.6622 | 44.2535 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 14 | 5.6503 | 8.6296 | . | . | 13.3779 | . | . | . | 0 | 1 | 0 | 0 | 0 |
| 15 | 28.1827 | 16.9082 | 19.4577 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 16 | 3.0106 | 6.6917 | 9.5554 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 17 | 45.1127 | 27.5815 | 38.8296 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 18 | 22.6247 | 17.6041 | 16.1601 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 19 | 26.0557 | 23.1712 | 27.7401 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 20 | 12.7756 | 8.6170 | 7.1836 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 21 | 50.6320 | 23.3808 | 24.2790 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 22 | 6.6793 | 6.7833 | 10.1910 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 23 | 39.1268 | 38.3228 | 42.3492 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 24 | 17.3082 | . | 11.4556 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |

Status=2                                    07:33 Monday, October 26, 1998   2

| OBS | GRD_TREE | TREAT | BLOCK | PLOT | T_DEN | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 100 | 5 | 4 | 1 | 266.667 | 26.467 | 26.467 | 35.320 | 29.022 | 32.372 | . | 22.840 | 16.8889 | 20.1900 | 16.4202 |
| 26 | 0 | 3 | 4 | 2 | 346.667 | 21.693 | 21.693 | 26.133 | 26.261 | 25.300 | . | 31.121 | 17.6386 | 15.5433 | 19.1952 |
| 27 | 100 | 3 | 4 | 2 | 220.000 | 15.814 | 15.814 | 14.903 | 18.034 | 22.333 | . | 20.808 | 13.8306 | 12.8607 | 13.6786 |
| 28 | 0 | 4 | 4 | 3 | 673.333 | 36.864 | 36.864 | 42.744 | 47.800 | 57.980 | . | 65.044 | 28.5142 | 25.1428 | 29.1145 |
| 29 | 100 | 4 | 4 | 3 | 120.000 | 10.923 | 10.923 | 13.921 | 8.960 | 17.499 | . | 13.292 | 8.8511 | 8.5933 | 4.2607 |
| 30 | 0 | 2 | 4 | 4 | 473.333 | 31.241 | 31.241 | 41.695 | 40.189 | 47.249 | . | 54.768 | 24.0700 | 22.4321 | 20.0237 |
| 31 | 100 | 2 | 4 | 4 | 80.000 | 7.119 | 7.119 | 5.345 | 10.742 | 7.542 | . | 11.339 | 5.4700 | 3.2070 | 6.0067 |
| 32 | 0 | 1 | 4 | 5 | 746.667 | 36.248 | 36.248 | 39.055 | 40.606 | 73.111 | . | 67.103 | 28.2950 | 22.1835 | 21.3053 |

| OBS | T_SPBA94 | T_SPBA95 | T_SPBA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_CSAP92 | N_CSAP93 | N_CSAP94 | N_CSAP95 | N_CSAP97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 14.2450 | . | 9.0048 | 6.1538 | . | . | . | . | 1 | 0 | 0 | 0 | 0 |
| 26 | 13.0712 | . | 9.4252 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 27 | 12.2713 | . | 10.2513 | . | . | . | . | . . | 0 | 0 | 0 | 0 | 0 |
| 28 | 26.5111 | . | 11.7215 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 29 | 7.5985 | . | 7.2429 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 30 | 23.4440 | . | 14.1297 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 31 | 4.9151 | . | 5.4987 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |
| 32 | 41.9430 | . | 21.9215 | . | . | . | . | . | 0 | 0 | 0 | 0 | 0 |

```
title ' all status ';
options ls=132 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
 if grd_tree<2 ;
grd_tree=grd_tree*100;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
*if stat92=0;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
*if stat93=0;
drop stat92x;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
*if stat94=0;
drop stat93x;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
*if stat95=0;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
*if stat97=0;
proc sort; by block plot tag;

data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
if tag;
ba90 = (dbh90**2)* .005454;
ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;

woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;

csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
```

```
proc means noprint nway; var grd_tree ba90--ba97 dbh91--crnht97
  sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
  output out=mean mean=
  n(dbh92 dbh93 dbh94 dbh95 dbh97)=n_92-n_95 n_97; by block plot;

data mean; set mean;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
t_trees = _freq_;
hec= .15 * .404686;
acre=.15;
if block=2 and plot=4 then hec= .10 * .404686;
if block=1 and plot=3 then hec= .10 * .404686;
if block=2 and plot=4 then acre=.10;
if block=1 and plot=3 then acre=.10;

qmd90=sqrt(ba90/.005454);
qmd91=sqrt(ba91/.005454);
qmd92=sqrt(ba92/.005454);
qmd93=sqrt(ba93/.005454);
qmd94=sqrt(ba94/.005454);
qmd95=sqrt(ba95/.005454);
qmd97=sqrt(ba97/.005454);

t_den= t_trees/acre;

t_ba90=t_trees*ba90/acre;
t_ba91=t_trees*ba91/acre;
t_ba92=t_trees*ba92/acre;
t_ba93=t_trees*ba93/acre;
t_ba94=t_trees*ba94/acre;
t_ba95=t_trees*ba95/acre;
t_ba97=t_trees*ba97/acre;

t_spba91=t_trees*sap_ba91/acre;
t_spba92=t_trees*sap_ba92/acre;
t_spba93=t_trees*sap_ba93/acre;
t_spba94=t_trees*sap_ba94/acre;
t_spba95=t_trees*sap_ba95/acre;
t_spba97=t_trees*sap_ba97/acre;

proc print;
```

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12  TS045
      Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


    Welcome to SAS 6.12 TS-045!!  Installed February 1998.

    This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
    IML, INSIGHT, OR, QC, STAT and TUTOR options.

    The SAS software is for University use only, and may not be used
    for any commerical purposes.


NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
      real time           0.64 seconds
      cpu time            0.12 seconds

NOTE: DM statements are only valid in DMS mode.
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

1              title ' all status ';
2              options ls=132 ps=55;
3              data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
4              input block plot tag east north crown dbh90 rank grd_tree girdle;
5               if grd_tree<2 ;
6              grd_tree=grd_tree*100;

NOTE: The infile '90.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
      The minimum record length was 20.
      The maximum record length was 27.
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: DATA statement used:
      real time           0.47 seconds
      cpu time            0.15 seconds


7              proc sort; by block plot tag;

2                                        The SAS System                        13:41 Friday, September 25, 1998


NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: PROCEDURE SORT used:
      real time             0.33 seconds
      cpu time              0.08 seconds


8          data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
9          input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
10         CRNTP91=STMLN91; drop CRNWD91;

NOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time             0.40 seconds
      cpu time              0.14 seconds


11         proc sort; by block plot tag;

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time             0.25 seconds
      cpu time              0.06 seconds


12         data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
13         input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
14         *if stat92=0;

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 341 observations and 12 variables.
NOTE: DATA statement used:
      real time             0.21 seconds
      cpu time              0.06 seconds

```
15          proc sort; by block plot tag;
```

NOTE: The data set WORK.T92 has 341 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.16 seconds
      cpu time            0.03 seconds


```
16          data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
17          input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
18          sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
19          *if stat93=0;
20          drop stat92x;
```

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.22 seconds
      cpu time            0.07 seconds


```
21          proc sort; by block plot tag;
```

NOTE: The data set WORK.T93 has 325 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.25 seconds
      cpu time            0.01 seconds


```
22          data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
23          input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
24          sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
25          *if stat94=0;
26          drop stat93x;
```

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.
NOTE: Missing values were generated as a result of performing an operation on missing values.

        Each place is given by: (Number of times) at (Line):(Column).
        3 at 24:12    3 at 24:32    3 at 24:51    3 at 24:67
NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: DATA statement used:
        real time           0.23 seconds
        cpu time            0.06 seconds


27          proc sort; by block plot tag;

·NOTE: The data set WORK.T94 has 305 observations and 12 variables.
NOTE: PROCEDURE SORT used:
        real time           0.21 seconds
        cpu time            0.02 seconds


28          data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
29          input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
30          sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
31          *if stat95=0;

NOTE: The infile '95.dat' is:
        File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
        Owner Name=zumbrunn,Group Name=ACD0003,
        Access Permission=rw-------,
        File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
        The minimum record length was 31.
        The maximum record length was 42.
NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: DATA statement used:
        real time           0.17 seconds
        cpu time            0.04 seconds


32          proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 196 observations and 12 variables.
NOTE: PROCEDURE SORT used:
        real time           0.17 seconds
        cpu time            0.00 seconds


33          data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
34          input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
35          sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
36          *if stat97=0;

NOTE: The infile '97.dat' is:
        File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
        Owner Name=zumbrunn,Group Name=ACD0003,
        Access Permission=rw-------,

5                                            The SAS System                        13:41 Friday, September 25, 1998

        File Size (bytes)=11868

NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      8 at 35:12     11 at 35:32    10 at 35:51    8 at 35:67
NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.24 seconds
      cpu time             0.04 seconds


37          proc sort; by block plot tag;
38

NOTE: The data set WORK.T97 has 304 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.17 seconds
      cpu time             0.02 seconds


39          data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
40          if tag;
41          ba90 = (dbh90**2)* .005454;
42          ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
43          ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
44          ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;
45
46          woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
47          woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
48          woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
49          woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
50          woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
51          woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;
52
53          csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
54          csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
55          csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
56          csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
57          csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
58

NOTE: Division by zero detected at line 53 column 29.
BLOCK=2 PLOT=2 TAG=533 EAST=36 NORTH=8 CROWN=2 DBH90=5.6 RANK=3 GRD_TREE=100 GIRDLE=22 DBH91=5.6 HRT91=2.4 SAP91=0 RAD1091=0.15
RAD0591=0.05 STMLN91=37 CRNHT91=23 CRNTP91=37 STAT92=2 DBH92=5.3 HRT92=1.5 SAP92=0.9 RAD1092=0.05 RAD0592=0 STMLN92=37 CRNHT92=25
CRNTP92=37 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.15320286 BA93=. BA94=. BA95=. BA97=. WODA91=0.12566016
HWA91=0.12566016 SAP_BA91=0 WODA92=0.12566016 HWA92=0.049086 SAP_BA92=0.07657416 WODA93=0.12566016 HWA93=. SAP_BA93=.
WODA94=0.12566016 HWA94=. SAP_BA94=. WODA95=0.12566016 HWA95=. SAP_BA95=. WODA97=0.12566016 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.

CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=399
NOTE: Division by zero detected at line 53 column 29.
BLOCK=2 PLOT=2 TAG=587 EAST=76 NORTH=49 CROWN=3 DBH90=4.1 RANK=3 GRD_TREE=100 GIRDLE=15 DBH91=4.1 HRT91=2 SAP91=0 RAD1091=0.2
RAD0591=0.1 STMLN91=29 CRNHT91=13 CRNTP91=29 STAT92=2 DBH92=4.9 HRT92=0.95 SAP92=1.25 RAD1092=0.25 RAD0592=0.1 STMLN92=28 CRNHT92=15
CRNTP92=28 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.09168174 BA91=0.09168174 BA92=0.13095054 BA93=. BA94=. BA95=. BA97=. WODA91=0.087264
HWA91=0.087264 SAP_BA91=0 WODA92=0.087264 HWA92=0.01968894 SAP_BA92=0.06757506 WODA93=0.087264 HWA93=. SAP_BA93=. WODA94=0.087264
HWA94=. SAP_BA94=. WODA95=0.087264 HWA95=. SAP_BA95=. WODA97=0.087264 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=. CSAPBA94=. CSAPBA95=.
CSAPBA97=. _ERROR_=1 _N_=443
NOTE: Division by zero detected at line 53 column 29.
BLOCK=2 PLOT=2 TAG=601 EAST=70 NORTH=24 CROWN=2 DBH90=5.6 RANK=4 GRD_TREE=100 GIRDLE=21 DBH91=5.6 HRT91=2.3 SAP91=0 RAD1091=0.1
RAD0591=0.05 STMLN91=36 CRNHT91=15 CRNTP91=36 STAT92=2 DBH92=4.4 HRT92=1.25 SAP92=1.05 RAD1092=0.15 RAD0592=0.05 STMLN92=36
CRNHT92=15 CRNTP92=36 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=.
SAP94=. RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=.
CRNTP95=. STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.10558944 BA93=. BA94=. BA95=. BA97=. WODA91=0.11540664
HWA91=0.11540664 SAP_BA91=0 WODA92=0.11540664 HWA92=0.0340875 SAP_BA92=0.08131914 WODA93=0.11540664 HWA93=. SAP_BA93=.
WODA94=0.11540664 HWA94=. SAP_BA94=. WODA95=0.11540664 HWA95=. SAP_BA95=. WODA97=0.11540664 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=454
NOTE: Division by zero detected at line 53 column 29.
BLOCK=2 PLOT=2 TAG=602 EAST=67 NORTH=22 CROWN=2 DBH90=6.5 RANK=1 GRD_TREE=100 GIRDLE=25 DBH91=6.5 HRT91=2.9 SAP91=0 RAD1091=0.25
RAD0591=0.1 STMLN91=40 CRNHT91=21 CRNTP91=40 STAT92=2 DBH92=6.3 HRT92=1.75 SAP92=0.9 RAD1092=0.15 RAD0592=0.05 STMLN92=40 CRNHT92=23
CRNTP92=40 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.2304315 BA91=0.2304315 BA92=0.21646926 BA93=. BA94=. BA95=. BA97=. WODA91=0.18347256
HWA91=0.18347256 SAP_BA91=0 WODA92=0.18347256 HWA92=0.0668115 SAP_BA92=0.11666106 WODA93=0.18347256 HWA93=. SAP_BA93=.
WODA94=0.18347256 HWA94=. SAP_BA94=. WODA95=0.18347256 HWA95=. SAP_BA95=. WODA97=0.18347256 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=455
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1179 at 42:42    1179 at 42:46    1195 at 43:14    1195 at 43:18    1218 at 43:42    1218 at 43:46    1325 at 44:14
      1325 at 44:18    1216 at 44:42    1216 at 44:46    1179 at 47:47    1179 at 47:54    1179 at 47:58    1179 at 47:84
      1195 at 48:47    1195 at 48:54    1195 at 48:58    1195 at 48:84    1218 at 49:47    1218 at 49:54    1218 at 49:58
      1218 at 49:84    1324 at 50:47    1324 at 50:54    1324 at 50:58    1324 at 50:84    1224 at 51:47    1224 at 51:54
      1224 at 51:58    1224 at 51:84    1179 at 53:19    1179 at 53:29    1183 at 53:38    1195 at 54:19    1195 at 54:29
      1195 at 54:38    1218 at 55:19    1218 at 55:29    1218 at 55:38    1324 at 56:19    1324 at 56:29    1324 at 56:38
      1224 at 57:19    1224 at 57:29    1224 at 57:38
NOTE: Mathematical operations could not be performed at the following places. The results of the operations have been set to
      missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      4 at 53:29
NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
NOTE: DATA statement used:
      real time           2.63 seconds
      cpu time            1.06 seconds


59          proc means noprint nway; var grd_tree ba90--ba97 dbh91--crnht97
60            sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
61            output out=mean mean=

```
62          n(dbh92 dbh93 dbh94 dbh95 dbh97)=n_92-n_95 n_97; by block plot;
63
```

NOTE: The data set WORK.MEAN has 18 observations and 81 variables.
NOTE: PROCEDURE MEANS used:
       real time          0.28 seconds
       cpu time           0.12 seconds

```
64          data mean; set mean;
65          if block=1 and plot=1 then treat=1;
66          if block=1 and plot=2 then treat=3;
67          if block=1 and plot=3 then treat=4;
68          if block=1 and plot=4 then treat=5;
69          if block=2 and plot=1 then treat=3;
70          if block=2 and plot=2 then treat=5;
71          if block=2 and plot=3 then treat=1;
72          if block=2 and plot=4 then treat=4;
73          if block=3 and plot=1 then treat=2;
74          if block=3 and plot=2 then treat=5;
75          if block=3 and plot=3 then treat=3;
76          if block=3 and plot=4 then treat=4;
77          if block=3 and plot=5 then treat=1;
78          if block=4 and plot=1 then treat=5;
79          if block=4 and plot=2 then treat=3;
80          if block=4 and plot=3 then treat=4;
81          if block=4 and plot=4 then treat=2;
82          if block=4 and plot=5 then treat=1;
83          t_trees = _freq_;
84          hec= .15 * .404686;
85          acre=.15;
86          if block=2 and plot=4 then hec= .10 * .404686;
87          if block=1 and plot=3 then hec= .10 * .404686;
88          if block=2 and plot=4 then acre=.10;
89          if block=1 and plot=3 then acre=.10;
90
91          qmd90=sqrt(ba90/.005454);
92          qmd91=sqrt(ba91/.005454);
93          qmd92=sqrt(ba92/.005454);
94          qmd93=sqrt(ba93/.005454);
95          qmd94=sqrt(ba94/.005454);
96          qmd95=sqrt(ba95/.005454);
97          qmd97=sqrt(ba97/.005454);
98
99          t_den= t_trees/acre;
100
101         t_ba90=t_trees*ba90/acre;
102         t_ba91=t_trees*ba91/acre;
103         t_ba92=t_trees*ba92/acre;
104         t_ba93=t_trees*ba93/acre;
105         t_ba94=t_trees*ba94/acre;
106         t_ba95=t_trees*ba95/acre;
107         t_ba97=t_trees*ba97/acre;
```

8                                       The SAS System                              13:41 Friday, September 25, 1998

```
108
109         t_spba91=t_trees*sap_ba91/acre;
110         t_spba92=t_trees*sap_ba92/acre;
111         t_spba93=t_trees*sap_ba93/acre;
112         t_spba94=t_trees*sap_ba94/acre;
113         t_spba95=t_trees*sap_ba95/acre;
114         t_spba97=t_trees*sap_ba97/acre;
115
```

NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      5 at 96:7      5 at 96:16    5 at 106:15    5 at 106:20    5 at 113:17    5 at 113:26
NOTE: The data set WORK.MEAN has 18 observations and 106 variables.
NOTE: DATA statement used:
      real time          0.25 seconds
      cpu time           0.10 seconds


116        proc print;
NOTE: The PROCEDURE PRINT printed pages 1-4.
NOTE: PROCEDURE PRINT used:
      real time          0.13 seconds
      cpu time           0.09 seconds


NOTE: The SAS System used:
      real time          8.07 seconds
      cpu time           2.33 seconds

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414

all status                                         13:41 Friday, September 25, 1998    1

| OBS | BLOCK | PLOT | _TYPE_ | _FREQ_ | GRD_TREE | BA90 | BA91 | BA92 | BA93 | BA94 | BA95 | BA97 | DBH91 | HRT91 | SAP91 | RAD1091 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 0 | 52 | 0.0000 | 0.28232 | 0.28232 | 0.27387 | 0.31558 | 0.28185 | 0.33655 | 0.30799 | 7.13462 | 1.77596 | 1.57212 | 0.25962 |
| 2 | 1 | 2 | 0 | 55 | 40.0000 | 0.27631 | 0.27631 | 0.26594 | 0.30758 | 0.29192 | 0.30623 | 0.27686 | 7.08364 | 1.61909 | 1.32909 | 0.26273 |
| 3 | 1 | 3 | 0 | 62 | 11.2903 | 0.21126 | 0.21126 | 0.21565 | 0.19420 | 0.25103 | 0.21817 | 0.22504 | 6.13387 | 1.41129 | 1.28468 | 0.22016 |
| 4 | 1 | 4 | 0 | 90 | 40.0000 | 0.26252 | 0.26252 | 0.25777 | 0.29917 | 0.25826 | 0.28769 | 0.29841 | 6.85444 | 1.54778 | 1.41556 | 0.25333 |
| 5 | 2 | 1 | 0 | 88 | 40.9091 | 0.18409 | 0.18409 | 0.16105 | 0.20352 | 0.16752 | 0.22032 | 0.18450 | 5.66023 | 1.53409 | 1.08125 | 0.24432 |
| 6 | 2 | 2 | 0 | 123 | 39.8374 | 0.17074 | 0.17074 | 0.16019 | 0.15737 | 0.18929 | 0.21137 | 0.19817 | 5.47724 | 1.48984 | 0.92439 | 0.17154 |
| 7 | 2 | 3 | 0 | 73 | 0.0000 | 0.23029 | 0.23029 | 0.20529 | 0.23027 | 0.26139 | 0.27159 | 0.24430 | 6.42740 | 1.58562 | 1.09110 | 0.20959 |
| 8 | 2 | 4 | 0 | 77 | 6.4935 | 0.15559 | 0.15559 | 0.15291 | 0.14920 | 0.16772 | 0.18487 | 0.15986 | 5.26883 | 1.28052 | 1.03182 | 0.21753 |
| 9 | 3 | 1 | 0 | 61 | 13.1148 | 0.14893 | 0.14893 | 0.20280 | 0.13443 | 0.15895 | 0.17379 | 0.19987 | 4.84426 | 0.55000 | 1.57213 | 0.61230 |
| 10 | 3 | 2 | 0 | 104 | 32.6923 | 0.15458 | 0.15458 | 0.16797 | 0.23488 | 0.17666 | 0.16263 | 0.16909 | 4.87981 | 0.70529 | 1.55288 | 0.63510 |
| 11 | 3 | 3 | 0 | 72 | 31.9444 | 0.12593 | 0.12593 | 0.14849 | 0.13995 | 0.13818 | 0.17256 | 0.16726 | 4.53056 | 0.59653 | 1.44375 | 0.62361 |
| 12 | 3 | 4 | 0 | 73 | 15.0685 | 0.14241 | 0.14241 | 0.15007 | 0.15286 | 0.18793 | 0.19251 | 0.16168 | 4.75890 | 0.60205 | 1.57123 | 0.61233 |
| 13 | 3 | 5 | 0 | 92 | 0.0000 | 0.09582 | 0.09582 | 0.08930 | 0.10846 | 0.10255 | 0.16656 | 0.14603 | 3.86848 | 0.43478 | 1.33533 | 0.69130 |
| 14 | 4 | 1 | 0 | 99 | 40.4040 | 0.08636 | 0.08636 | 0.10575 | 0.11002 | 0.10955 | . | 0.10021 | 3.83838 | 0.42677 | 1.22778 | 0.69293 |
| 15 | 4 | 2 | 0 | 85 | 38.8235 | 0.06619 | 0.06619 | 0.07284 | 0.07793 | 0.08546 | . | 0.09288 | 3.30706 | 0.37412 | 1.18412 | 0.70824 |
| 16 | 4 | 3 | 0 | 119 | 15.1261 | 0.06024 | 0.06024 | 0.07224 | 0.07114 | 0.09327 | . | 0.09830 | 3.21933 | 0.24454 | 1.20210 | 0.82647 |
| 17 | 4 | 4 | 0 | 83 | 14.4578 | 0.06932 | 0.06932 | 0.08684 | 0.09362 | 0.09917 | . | 0.12221 | 3.47229 | 0.28675 | 1.26687 | 0.85602 |
| 18 | 4 | 5 | 0 | 112 | 0.0000 | 0.04855 | 0.04855 | 0.05231 | 0.05438 | 0.09792 | . | 0.08987 | 2.81161 | 0.19955 | 1.05313 | 0.80804 |

| OBS | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 | STAT92 | DBH92 | HRT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRNHT92 | CRNTP92 | STAT93 | DBH93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.13077 | 40.4038 | 14.4808 | 40.4038 | 0.16667 | 7.05000 | 1.97917 | 1.50000 | 0.25000 | 0.14167 | 40.4167 | 20.0000 | 40.4167 | 0.00000 | 7.51000 |
| 2 | 0.12455 | 39.3455 | 15.3455 | 39.3455 | 0.40000 | 6.92667 | 1.70000 | 1.52667 | 0.22667 | 0.10333 | 41.0667 | 19.6000 | 41.0667 | 0.46154 | 7.46154 |
| 3 | 0.10806 | 37.2581 | 15.7903 | 37.2581 | 0.07143 | 6.23571 | 1.54286 | 1.50357 | 0.16786 | 0.08214 | 39.5000 | 21.2857 | 39.5000 | 0.07692 | 5.88462 |
| 4 | 0.12278 | 41.2889 | 17.5778 | 41.2889 | 0.58333 | 6.73333 | 1.63333 | 1.37917 | 0.21458 | 0.10625 | 42.8333 | 24.7917 | 42.8333 | 0.42857 | 7.31429 |
| 5 | 0.12330 | 34.1364 | 12.0455 | 34.1364 | 0.62500 | 5.29583 | 1.51250 | 0.92292 | 0.15000 | 0.07917 | 33.9167 | 13.8750 | 33.9167 | 0.50000 | 5.91000 |
| 6 | 0.07927 | 35.1545 | 13.3008 | 35.1545 | 0.81081 | 5.32703 | 1.39459 | 0.96216 | 0.14324 | 0.06351 | 35.5676 | 16.5946 | 35.5676 | 0.73333 | 5.20667 |
| 7 | 0.09863 | 37.0000 | 13.3151 | 37.0000 | 0.00000 | 6.10000 | 1.48929 | 1.17500 | 0.19643 | 0.09286 | 36.9286 | 12.7857 | 37.1429 | 0.00000 | 6.43333 |
| 8 | 0.10065 | 33.7013 | 12.7662 | 33.7013 | 0.00000 | 5.24667 | 1.42667 | 1.07000 | 0.21667 | 0.09667 | 33.2000 | 12.4000 | 32.2667 | 0.11765 | 5.15294 |
| 9 | 0.29754 | 25.6885 | 4.5574 | 25.6885 | 0.00000 | 5.87692 | 0.81154 | 1.80000 | 0.60769 | 0.26923 | 29.9231 | 5.4615 | 29.9231 | 0.00000 | 4.60000 |
| 10 | 0.31346 | 26.6923 | 5.2115 | 26.6923 | 0.00000 | 5.26190 | 1.00000 | 1.35000 | 0.63810 | 0.30238 | 28.2381 | 5.4286 | 28.2381 | 0.00000 | 6.18571 |
| 11 | 0.31667 | 25.4722 | 4.4306 | 25.4722 | 0.00000 | 4.90000 | 0.74667 | 1.43000 | 0.60333 | 0.28667 | 25.6000 | 4.3333 | 25.6000 | 0.00000 | 4.84000 |
| 12 | 0.30274 | 26.4521 | 4.3973 | 26.4521 | 0.00000 | 4.96000 | 0.79333 | 1.59333 | 0.63000 | 0.28333 | 28.0000 | 5.1333 | 28.0000 | 0.00000 | 4.96667 |
| 13 | 0.35054 | 21.6739 | 3.5978 | 21.6739 | 0.00000 | 3.77895 | 0.49211 | 1.26842 | 0.59474 | 0.28684 | 21.3158 | 3.5263 | 21.3158 | 0.00000 | 4.20526 |
| 14 | 0.33333 | 24.2020 | 4.3434 | 24.2020 | 0.09524 | 4.23333 | 0.52619 | 1.35238 | 0.58333 | 0.26429 | 24.7143 | 5.2381 | 24.7143 | 0.00000 | 4.41500 |
| 15 | 0.32176 | 19.5176 | 3.2000 | 19.5176 | 0.05556 | 3.52222 | 0.43333 | 1.13056 | 0.63889 | 0.29167 | 20.6667 | 3.2778 | 20.2222 | 0.15000 | 3.58500 |
| 16 | 0.39118 | 17.9748 | 2.8824 | 17.9748 | 0.00000 | 3.52917 | 0.39375 | 1.20625 | 0.78958 | 0.36667 | 18.8333 | 3.5833 | 18.7500 | 0.00000 | 3.42500 |
| 17 | 0.40964 | 17.7831 | 2.4337 | 17.7831 | 0.00000 | 3.87647 | 0.44412 | 1.35000 | 0.91176 | 0.42353 | 19.4118 | 2.3529 | 19.4118 | 0.00000 | 4.05294 |
| 18 | 0.38571 | 14.9821 | 1.9018 | 14.9821 | 0.00000 | 2.98261 | 0.29348 | 1.08478 | 0.81087 | 0.36522 | 15.1739 | 2.1304 | 15.1739 | 0.00000 | 3.05217 |

| OBS | HRT93 | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRNHT93 | CRNTP93 | STAT94 | DBH94 | HRT94 | SAP94 | RAD1094 | RAD0594 | STMLN94 | CRNHT94 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.07000 | 1.64500 | 0.19000 | 0.09500 | 40.5000 | 16.9000 | 39.9000 | 0.00000 | 7.14000 | 1.97500 | 1.59000 | 0.35000 | 0.18000 | 40.7000 | 20.1000 |
| 2 | 1.66154 | 1.36923 | 0.20385 | 0.09615 | 41.3077 | 16.2308 | 41.2308 | 0.33333 | 7.26667 | 1.61667 | 1.43750 | 0.29375 | 0.16667 | 40.5833 | 18.6667 |
| 3 | 1.41923 | 1.12692 | 0.20000 | 0.09231 | 36.3077 | 16.9231 | 36.3077 | 0.07692 | 6.75385 | 1.55385 | 1.38077 | 0.25385 | 0.12692 | 39.0000 | 20.6923 |
| 4 | 1.78333 | 1.44286 | 0.23571 | 0.10476 | 42.0000 | 22.2381 | 42.0000 | 0.21053 | 6.78947 | 1.38947 | 1.54211 | 0.24474 | 0.11316 | 40.0526 | 20.7368 |
| 5 | 1.52000 | 1.03500 | 0.18750 | 0.09250 | 34.9000 | 13.7000 | 34.9000 | 0.00000 | 5.43333 | 1.33333 | 0.98333 | 0.20000 | 0.10000 | 33.2667 | 16.1333 |
| 6 | 1.43333 | 0.92833 | 0.14333 | 0.06667 | 34.4667 | 14.4667 | 34.4667 | 0.34783 | 5.81739 | 1.52174 | 1.01304 | 0.20978 | 0.09565 | 36.6818 | 19.2727 |
| 7 | 1.65000 | 1.07667 | 0.17667 | 0.08000 | 37.2667 | 16.2667 | 37.2667 | 0.00000 | 6.87333 | 1.62333 | 1.14333 | 0.19667 | 0.09333 | 38.0667 | 19.2000 |
| 8 | 1.15000 | 1.03529 | 0.16765 | 0.07353 | 33.5882 | 16.6471 | 33.5882 | 0.00000 | 5.49333 | 1.27667 | 0.95000 | 0.17000 | 0.08000 | 36.0000 | 19.6000 |
| 9 | 0.57500 | 1.34167 | 0.45000 | 0.23333 | 23.4167 | 4.3333 | 23.4167 | 0.00000 | 5.11667 | 0.68750 | 1.48750 | 0.45833 | 0.20000 | 27.4167 | 7.1667 |
| 10 | 1.02619 | 1.61667 | 0.55714 | 0.24286 | 30.3333 | 5.2381 | 30.3333 | 0.00000 | 5.37619 | 0.84524 | 1.38095 | 0.46905 | 0.19881 | 26.7619 | 8.0000 |
| 11 | 0.71667 | 1.35000 | 0.53333 | 0.22667 | 25.8000 | 5.0667 | 25.8000 | 0.00000 | 4.75000 | 0.72500 | 1.31786 | 0.54286 | 0.24286 | 26.5000 | 6.3571 |
| 12 | 0.62000 | 1.56333 | 0.60333 | 0.30000 | 27.0000 | 5.0000 | 27.0000 | 0.00000 | 5.62000 | 0.84667 | 1.62000 | 0.55667 | 0.24333 | 29.2667 | 7.7333 |
| 13 | 0.40789 | 1.44737 | 0.62368 | 0.27632 | 21.5789 | 3.3158 | 21.5789 | 0.00000 | 4.05000 | 0.44444 | 1.33889 | 0.57500 | 0.28889 | 21.8889 | 5.6111 |
| 14 | 0.59250 | 1.39500 | 0.58500 | 0.25750 | 25.3000 | 4.9500 | 25.3000 | 0.00000 | 4.31500 | 0.65250 | 1.15750 | 0.45000 | 0.18750 | 24.8500 | 7.0500 |
| 15 | 0.40000 | 1.12750 | 0.55500 | 0.25250 | 19.9500 | 3.6000 | 18.8000 | 0.15789 | 3.77500 | 0.55000 | 1.11875 | 0.48438 | 0.20625 | 20.8125 | 5.5625 |
| 16 | 0.37521 | 1.18333 | 0.75833 | 0.34375 | 18.1667 | 3.0000 | 18.6250 | 0.00000 | 4.01200 | 0.50000 | 1.27200 | 0.69800 | 0.30600 | 20.6000 | 5.4800 |
| 17 | 0.47647 | 1.32059 | 0.83235 | 0.39118 | 18.8235 | 3.1176 | 18.8235 | 0.00000 | 4.21765 | 0.47059 | 1.40000 | 0.69706 | 0.30588 | 20.1176 | 4.7059 |
| 18 | 0.26522 | 1.01087 | 0.75652 | 0.34565 | 15.1304 | 2.1739 | 15.1304 | 0.00000 | 3.95909 | 0.32727 | 1.27273 | 0.68864 | 0.30227 | 18.1818 | 4.2273 |

| OBS | CRNTP94 | STAT95 | DBH95 | HRT95 | SAP95 | RAD0595 | RAD1095 | STMLN95 | CRNHT95 | CRNTP95 | STAT97 | DBH97 | SAP97 | HRT97 | RAD0597 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 40.7000 | 0.00000 | 7.77000 | 2.08500 | 1.70500 | 0.15500 | 0.31000 | 37.5000 | 37.5000 | 19.1000 | 0.00000 | 7.48000 | 1.47500 | 1.73500 | 0.11300 |
| 2 | 40.5833 | 0.00000 | 7.47000 | 1.49500 | 1.92000 | 0.13000 | 0.24500 | 38.4600 | 37.9600 | 20.8000 | 0.00000 | 7.11000 | 1.34500 | 1.75500 | 0.08050 |
| 3 | 38.6923 | 0.21429 | 6.22857 | 1.48929 | 1.24286 | 0.13214 | 0.24286 | 36.9929 | 36.9154 | 22.7692 | 0.21429 | 6.31429 | 0.99286 | 1.35000 | 0.05115 |
| 4 | 40.1053 | 0.11765 | 7.10000 | 1.39706 | 1.60882 | 0.18235 | 0.31471 | 38.7647 | 38.8688 | 23.7000 | 0.45000 | 7.36500 | 1.35313 | 1.51250 | 0.07079 |
| 5 | 32.9333 | 0.00000 | 6.26000 | 1.08333 | 1.60000 | 0.29000 | 0.44667 | 34.5467 | 54.5600 | 17.8400 | 0.00000 | 5.69375 | 1.02188 | 1.37500 | 0.05154 |
| 6 | 35.8182 | 0.15000 | 6.16842 | 1.03750 | 1.42250 | 0.22500 | 0.35500 | 37.5158 | 36.9889 | 21.9222 | 0.19048 | 5.88095 | 1.06316 | 1.46842 | 0.05132 |
| 7 | 38.0667 | 0.00000 | 6.96000 | 1.22667 | 1.82000 | 0.23333 | 0.33333 | 35.6000 | 35.6000 | 18.3400 | 0.00000 | 6.62143 | 1.11786 | 1.61429 | 0.04545 |
| 8 | 36.0000 | 0.00000 | 5.74000 | 1.12667 | 1.26667 | 0.24667 | 0.36667 | 33.4000 | 33.4000 | 17.5533 | 0.11765 | 5.35882 | 0.99375 | 1.37500 | 0.04559 |
| 9 | 27.4167 | 0.00000 | 5.35000 | 1.57500 | 0.90417 | 0.35417 | 0.60000 | 27.7500 | 27.7500 | 5.2500 | 0.00000 | 5.72500 | 0.98750 | 1.47500 | 0.08375 |
| 10 | 26.4286 | 0.00000 | 5.04762 | 1.32619 | 1.09762 | 0.33095 | 0.57619 | 26.7619 | 26.7143 | 5.6190 | 0.00000 | 5.14500 | 1.01750 | 1.11750 | 0.11625 |
| 11 | 26.5000 | 0.07143 | 5.43571 | 1.35000 | 0.94286 | 0.32857 | 0.58214 | 28.2143 | 27.5714 | 5.7143 | 0.00000 | 5.34667 | 1.34667 | 0.99000 | 0.10167 |
| 12 | 29.2333 | 0.00000 | 5.44286 | 1.43571 | 0.94286 | 0.37143 | 0.66071 | 28.7857 | 28.7857 | 5.8571 | 0.00000 | 5.21429 | 1.06071 | 1.23214 | 0.09286 |
| 13 | 21.8889 | 0.00000 | 5.30000 | 1.27632 | 1.05263 | 0.40526 | 0.75526 | 26.4211 | 26.4211 | 4.7368 | 0.00000 | 4.85789 | 1.25526 | 0.85526 | 0.10158 |
| 14 | 24.4500 | . | . | . | . | . | . | . | . | . | 0.14286 | 4.17619 | 0.73250 | 1.08500 | 0.08881 |
| 15 | 19.6875 | . | . | . | . | . | . | . | . | . | 0.00000 | 3.96471 | 0.87059 | 0.86176 | 0.07971 |
| 16 | 20.3200 | . | . | . | . | . | . | . | . | . | 0.00000 | 4.16400 | 0.80800 | 0.97000 | 0.11780 |
| 17 | 20.0882 | . | . | . | . | . | . | . | . | . | 0.00000 | 4.63125 | 1.28125 | 0.85938 | 0.13313 |
| 18 | 18.1818 | . | . | . | . | . | . | . | . | . | 0.00000 | 3.94348 | 1.03696 | 0.65435 | 0.11870 |

all status                                   13:41 Friday, September 25, 1998    3

| OBS | RAD1097 | STMLN97 | CRNTP97 | CRNHT97 | SAP_BA91 | SAP_BA92 | SAP_BA93 | SAP_BA94 | SAP_BA95 | SAP_BA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.16900 | 43.1000 | 43.1000 | 23.1000 | 0.17526 | 0.14457 | 0.14739 | 0.15842 | 0.14545 | 0.17744 | -19.4591 | -15.0220 | -12.4676 | -13.4210 |
| 2 | 0.13500 | 40.5000 | 35.2000 | 19.7000 | 0.13448 | 0.10299 | 0.17479 | 0.13197 | 0.15760 | 0.10891 | -12.7201 | 6.7976 | -2.8251 | 8.2368 |
| 3 | 0.09692 | 40.1429 | 37.2143 | 23.5000 | 0.11874 | 0.10164 | 0.10396 | 0.14336 | 0.10713 | 0.11953 | -21.1289 | -2.1965 | -1.6548 | -12.7589 |
| 4 | 0.13447 | 44.7000 | 41.0625 | 24.7500 | 0.14117 | 0.12793 | 0.14777 | 0.14295 | 0.16103 | 0.15488 | 1.2545 | -9.9645 | 5.0728 | 15.3671 |
| 5 | 0.10154 | 35.2500 | 32.4375 | 18.3125 | 0.10338 | 0.08613 | 0.11768 | 0.11681 | 0.13505 | 0.08404 | 0.2917 | 7.8812 | 13.4399 | 26.7624 |
| 6 | 0.08447 | 36.0476 | 35.6842 | 20.7368 | 0.08170 | 0.08411 | 0.07728 | 0.09416 | 0.12853 | 0.08042 | 5.2790 | -5.4382 | -0.4519 | 33.2657 |
| 7 | 0.07955 | 37.7857 | 37.7857 | 19.8571 | 0.10283 | 0.08580 | 0.09805 | 0.11481 | 0.13535 | 0.09495 | -6.4905 | -6.0013 | 2.2123 | 33.3220 |
| 8 | 0.09382 | 34.6471 | 34.3750 | 19.0000 | 0.08295 | 0.06427 | 0.09341 | 0.08483 | 0.08881 | 0.06146 | -18.9418 | 4.1229 | 2.9209 | 13.3264 |
| 9 | 0.19750 | 28.4167 | 28.0833 | 9.3333 | 0.10529 | 0.13117 | 0.07546 | 0.07782 | 0.06079 | 0.07575 | -6.4343 | -6.0247 | -5.8965 | -76.3417 |
| 10 | 0.25625 | 28.1000 | 28.1000 | 11.1000 | 0.11442 | 0.10462 | 0.14580 | 0.09787 | 0.06441 | 0.08023 | -16.4836 | -5.8508 | -5.1248 | -52.6247 |
| 11 | 0.23433 | 27.9333 | 26.8667 | 9.7333 | 0.09081 | 0.09817 | 0.08256 | 0.08052 | 0.06567 | 0.07730 | -2.1844 | -6.4908 | -6.0824 | -44.2939 |
| 12 | 0.21857 | 29.3571 | 29.3571 | 9.7143 | 0.10729 | 0.09563 | 0.10987 | 0.11412 | 0.05913 | 0.07020 | -6.1854 | -2.3710 | -9.7140 | -57.3245 |
| 13 | 0.24053 | 26.1579 | 26.1579 | 7.7895 | 0.07452 | 0.05097 | 0.07300 | 0.06379 | 0.06248 | 0.06905 | -8.2177 | -0.7664 | -1.2834 | -37.5903 |
| 14 | 0.22714 | 26.6667 | 23.5238 | 10.4286 | 0.05951 | 0.06673 | 0.06225 | 0.04824 | . | 0.03075 | -2.5851 | -7.9124 | -9.7863 | . |
| 15 | 0.19563 | 20.9412 | 16.4706 | 6.9412 | 0.05553 | 0.04938 | 0.05775 | 0.04561 | . | 0.03975 | -4.2482 | -1.0474 | -10.6230 | . |
| 16 | 0.28720 | 21.9200 | 21.3600 | 6.4400 | 0.04710 | 0.04305 | 0.04292 | 0.04225 | . | 0.02256 | -4.6178 | -5.9469 | -10.7376 | . |
| 17 | 0.32563 | 21.3125 | 19.9375 | 6.0625 | 0.05339 | 0.04696 | 0.04809 | 0.05093 | . | 0.03957 | -6.3650 | -8.2334 | -5.7093 | . |
| 18 | 0.29848 | 19.5652 | 19.5652 | 5.3043 | 0.03790 | 0.02971 | 0.02853 | 0.05617 | . | 0.02936 | -3.9670 | -4.9354 | -3.0909 | . |

| OBS | CSAPBA97 | N_92 | N_93 | N_94 | N_95 | N_97 | TREAT | T_TREES | HEC | ACRE | QMD90 | QMD91 | QMD92 | QMD93 | QMD94 | QMD95 | QMD97 | T_DEN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.2046 | 12 | 10 | 10 | 10 | 10 | 1 | 52 | 0.060703 | 0.15 | 7.19466 | 7.19466 | 7.08625 | 7.60677 | 7.18874 | 7.85538 | 7.51465 | 346.667 |
| 2 | -18.1792 | 15 | 13 | 12 | 10 | 10 | 3 | 55 | 0.060703 | 0.15 | 7.11771 | 7.11771 | 6.98288 | 7.50969 | 7.31596 | 7.49313 | 7.12482 | 366.667 |
| 3 | 3.6785 | 14 | 13 | 13 | 14 | 14 | 4 | 62 | 0.040469 | 0.10 | 6.22369 | 6.22369 | 6.28803 | 5.96715 | 6.78426 | 6.32467 | 6.42351 | 620.000 |
| 4 | -0.6152 | 24 | 21 | 19 | 17 | 20 | 5 | 90 | 0.060703 | 0.15 | 6.93778 | 6.93778 | 6.87471 | 7.40630 | 6.88132 | 7.26276 | 7.39693 | 600.000 |
| 5 | -0.3873 | 24 | 20 | 15 | 15 | 16 | 3 | 88 | 0.060703 | 0.15 | 5.80980 | 5.80980 | 5.43411 | 6.10868 | 5.54214 | 6.35584 | 5.81620 | 586.667 |
| 6 | -12.4498 | 37 | 30 | 23 | 19 | 21 | 5 | 123 | 0.060703 | 0.15 | 5.59514 | 5.59514 | 5.41946 | 5.37153 | 5.89119 | 6.22541 | 6.02783 | 820.000 |
| 7 | -4.5402 | 14 | 15 | 15 | 15 | 14 | 1 | 73 | 0.060703 | 0.15 | 6.49797 | 6.49797 | 6.13514 | 6.49774 | 6.92286 | 7.05663 | 6.69269 | 486.667 |
| 8 | -20.0818 | 15 | 17 | 15 | 15 | 17 | 4 | 77 | 0.040469 | 0.10 | 5.34108 | 5.34108 | 5.29497 | 5.23034 | 5.54545 | 5.82208 | 5.41387 | 770.000 |
| 9 | -39.4007 | 13 | 12 | 12 | 12 | 12 | 2 | 61 | 0.060703 | 0.15 | 5.22549 | 5.22549 | 6.09792 | 4.96471 | 5.39846 | 5.64491 | 6.05358 | 406.667 |
| 10 | -37.2076 | 21 | 21 | 21 | 21 | 20 | 5 | 104 | 0.060703 | 0.15 | 5.32374 | 5.32374 | 5.54956 | 6.56241 | 5.69130 | 5.46068 | 5.56808 | 693.333 |
| 11 | -17.9121 | 15 | 15 | 14 | 14 | 15 | 3 | 72 | 0.060703 | 0.15 | 4.80512 | 4.80512 | 5.21785 | 5.06557 | 5.03339 | 5.62488 | 5.53787 | 480.000 |
| 12 | -32.7258 | 15 | 15 | 15 | 14 | 14 | 4 | 73 | 0.060703 | 0.15 | 5.10994 | 5.10994 | 5.24557 | 5.29408 | 5.86998 | 5.94114 | 5.44466 | 486.667 |
| 13 | -21.5748 | 19 | 19 | 18 | 19 | 19 | 1 | 92 | 0.060703 | 0.15 | 4.19144 | 4.19144 | 4.04631 | 4.45935 | 4.33622 | 5.52616 | 5.17438 | 613.333 |
| 14 | -55.1891 | 21 | 20 | 20 | 0 | 21 | 5 | 99 | 0.060703 | 0.15 | 3.97934 | 3.97934 | 4.40330 | 4.49138 | 4.48180 | . | 4.28636 | 660.000 |
| 15 | -32.6994 | 18 | 20 | 16 | 0 | 17 | 3 | 85 | 0.060703 | 0.15 | 3.48369 | 3.48369 | 3.65437 | 3.78001 | 3.95854 | . | 4.12681 | 566.667 |
| 16 | -66.4673 | 24 | 24 | 25 | 0 | 25 | 4 | 119 | 0.060703 | 0.15 | 3.32332 | 3.32332 | 3.63931 | 3.61167 | 4.13546 | . | 4.24542 | 793.333 |
| 17 | -31.8463 | 17 | 17 | 17 | 0 | 16 | 2 | 83 | 0.060703 | 0.15 | 3.56523 | 3.56523 | 3.99021 | 4.14310 | 4.26415 | . | 4.73372 | 553.333 |
| 18 | -31.7609 | 23 | 23 | 22 | 0 | 23 | 1 | 112 | 0.060703 | 0.15 | 2.98345 | 2.98345 | 3.09684 | 3.15774 | 4.23712 | . | 4.05929 | 746.667 |

| OBS | T_BA90 | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 | T_SPBA94 | T_SPBA95 | T_SPBA97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 97.869 | 97.869 | 94.943 | 109.403 | 97.709 | 116.671 | 106.769 | 60.7565 | 50.1167 | 51.095 | 54.9197 | 50.422 | 61.5127 |
| 2 | 101.314 | 101.314 | 97.512 | 112.779 | 107.036 | 112.283 | 101.516 | 49.3107 | 37.7642 | 64.089 | 48.3902 | 57.786 | 39.9340 |
| 3 | 130.979 | 130.979 | 133.701 | 120.404 | 155.637 | 135.264 | 139.525 | 73.6165 | 63.0163 | 64.454 | 88.8809 | 66.422 | 74.1075 |
| 4 | 157.510 | 157.510 | 154.659 | 179.502 | 154.957 | 172.611 | 179.048 | 84.6999 | 76.7596 | 88.663 | 85.7713 | 96.619 | 92.9300 |
| 5 | 108.001 | 108.001 | 94.485 | 119.399 | 98.279 | 129.256 | 108.239 | 60.6525 | 50.5269 | 69.039 | 68.5286 | 79.230 | 49.3011 |
| 6 | 140.007 | 140.007 | 131.353 | 129.040 | 155.215 | 173.327 | 162.499 | 66.9940 | 68.9674 | 63.374 | 77.2091 | 105.398 | 65.9449 |
| 7 | 112.073 | 112.073 | 99.907 | 112.065 | 127.209 | 132.173 | 118.891 | 50.0434 | 41.7575 | 47.719 | 55.8726 | 65.872 | 46.2110 |
| 8 | 119.802 | 119.802 | 117.742 | 114.886 | 129.145 | 142.352 | 123.090 | 63.8745 | 49.4879 | 71.929 | 65.3203 | 68.383 | 47.3266 |
| 9 | 60.563 | 60.563 | 82.474 | 54.669 | 64.639 | 70.675 | 81.279 | 42.8183 | 53.3436 | 30.687 | 31.6466 | 24.721 | 30.8056 |
| 10 | 107.174 | 107.174 | 116.459 | 162.849 | 122.484 | 112.759 | 117.238 | 79.3310 | 72.5334 | 101.090 | 67.8552 | 44.655 | 55.6250 |
| 11 | 60.446 | 60.446 | 71.275 | 67.176 | 66.325 | 82.829 | 80.286 | 43.5895 | 47.1226 | 39.628 | 38.6517 | 31.522 | 37.1064 |
| 12 | 69.307 | 69.307 | 73.035 | 74.392 | 91.458 | 93.689 | 78.684 | 52.2159 | 46.5419 | 53.470 | 55.5382 | 28.778 | 34.1644 |
| 13 | 58.768 | 58.768 | 54.768 | 66.520 | 62.898 | 102.155 | 89.563 | 45.7071 | 31.2645 | 44.775 | 39.1268 | 38.323 | 42.3492 |
| 14 | 57.001 | 57.001 | 69.794 | 72.614 | 72.304 | . | 66.136 | 39.2793 | 44.0442 | 41.084 | 31.8388 | . | 20.2948 |
| 15 | 37.508 | 37.508 | 41.273 | 44.160 | 48.430 | . | 52.635 | 31.4692 | 27.9802 | 32.726 | 25.8471 | . | 22.5232 |
| 16 | 47.788 | 47.788 | 57.307 | 56.440 | 73.998 | . | 77.985 | 37.3654 | 34.1550 | 34.048 | 33.5157 | . | 17.8993 |
| 17 | 38.360 | 38.360 | 48.050 | 51.803 | 54.874 | . | 67.625 | 29.5400 | 25.9857 | 26.609 | 28.1817 | . | 21.8966 |
| 18 | 36.248 | 36.248 | 39.055 | 40.606 | 73.111 | . | 67.103 | 28.2950 | 22.1835 | 21.305 | 41.9430 | . | 21.9215 |

```
title ' status =0';
options ls=132 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
 if grd_tree<2 ;
grd_tree=grd_tree*100;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
if stat92=0;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
if stat93=0;
drop stat92x;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
if stat94=0;
drop stat93x;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
if stat95=0;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
if stat97=0;
proc sort; by block plot tag;

data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
if tag;
ba90 = (dbh90**2)* .005454;
ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;

woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;

csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
```

```
proc means noprint nway; var grd_tree ba90--ba97 dbh91--crnht97
 sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
 output out=mean mean=
  n(dbh92 dbh93 dbh94 dbh95 dbh97)=n_92-n_95 n_97; by block plot;

data mean; set mean;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
t_trees = _freq_;
hec= .15 * .404686;
acre=.15;
if block=2 and plot=4 then hec= .10 * .404686;
if block=1 and plot=3 then hec= .10 * .404686;
if block=2 and plot=4 then acre=.10;
if block=1 and plot=3 then acre=.10;

qmd90=sqrt(ba90/.005454);
qmd91=sqrt(ba91/.005454);
qmd92=sqrt(ba92/.005454);
qmd93=sqrt(ba93/.005454);
qmd94=sqrt(ba94/.005454);
qmd95=sqrt(ba95/.005454);
qmd97=sqrt(ba97/.005454);

t_den= t_trees/acre;

t_ba90=t_trees*ba90/acre;
t_ba91=t_trees*ba91/acre;
t_ba92=t_trees*ba92/acre;
t_ba93=t_trees*ba93/acre;
t_ba94=t_trees*ba94/acre;
t_ba95=t_trees*ba95/acre;
t_ba97=t_trees*ba97/acre;

t_spba91=t_trees*sap_ba91/acre;
t_spba92=t_trees*sap_ba92/acre;
t_spba93=t_trees*sap_ba93/acre;
t_spba94=t_trees*sap_ba94/acre;
t_spba95=t_trees*sap_ba95/acre;
t_spba97=t_trees*sap_ba97/acre;

proc print
```

1                                                    The SAS System                                    07:31 Monday, October 26, 1998

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12  TS045
      Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


    Welcome to SAS 6.12 TS-045!!  Installed February 1998.

    This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
    IML, INSIGHT, OR, QC, STAT and TUTOR options.

    The SAS software is for University use only, and may not be used
    for any commerical purposes.



NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
      real time            4.42 seconds
      cpu time             0.16 seconds

NOTE: DM statements are only valid in DMS mode.
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

1          title ' status =0';
2          options ls=132 ps=55;
3          data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
4          input block plot tag east north crown dbh90 rank grd_tree girdle;
5           if grd_tree<2 ;
6          grd_tree=grd_tree*100;

NOTE: The infile '90.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
      The minimum record length was 20.
      The maximum record length was 27.
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: DATA statement used:
      real time            1.90 seconds
      cpu time             0.15 seconds


7          proc sort; by block plot tag;

2                                               The SAS System                          07:31 Monday, October 26, 1998


NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: PROCEDURE SORT used:
      real time           0.52 seconds
      cpu time            0.06 seconds


```
8          data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
9          input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
10         CRNTP91=STMLN91; drop CRNWD91;
```

NOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time           0.54 seconds
      cpu time            0.19 seconds


```
11         proc sort; by block plot tag;
```

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time           0.22 seconds
      cpu time            0.06 seconds


```
12         data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
13         input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
14         if stat92=0;
```

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 301 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.21 seconds
      cpu time            0.07 seconds

3                                          The SAS System                         07:31 Monday, October 26, 1998

15          proc sort; by block plot tag;

NOTE: The data set WORK.T92 has 301 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.15 seconds
      cpu time            0.04 seconds


16          data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
17          input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
18          sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
19          if stat93=0;
20          drop stat92x;

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 296 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.20 seconds
      cpu time            0.06 seconds


21          proc sort; by block plot tag;

NOTE: The data set WORK.T93 has 296 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.16 seconds
      cpu time            0.03 seconds


22          data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
23          input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
24          sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
25          if stat94=0;
26          drop stat93x;

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.
NOTE: Missing values were generated as a result of performing an operation on missing values.

```
        Each place is given by: (Number of times) at (Line):(Column).
        3 at 24:12    3 at 24:32    3 at 24:51    3 at 24:67
NOTE: The data set WORK.T94 has 293 observations and 12 variables.
NOTE: DATA statement used:
        real time            0.22 seconds
        cpu time             0.06 seconds


27        proc sort; by block plot tag;

NOTE: The data set WORK.T94 has 293 observations and 12 variables.
NOTE: PROCEDURE SORT used:
        real time            0.15 seconds
        cpu time             0.04 seconds


28        data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
29        input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
30        sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
31        if stat95=0;

NOTE: The infile '95.dat' is:
        File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
        Owner Name=zumbrunn,Group Name=ACD0003,
        Access Permission=rw-------,
        File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
        The minimum record length was 31.
        The maximum record length was 42.
NOTE: The data set WORK.T95 has 190 observations and 12 variables.
NOTE: DATA statement used:
        real time            0.15 seconds
        cpu time             0.04 seconds


32        proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 190 observations and 12 variables.
NOTE: PROCEDURE SORT used:
        real time            0.11 seconds
        cpu time             0.02 seconds


33        data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
34        input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
35        sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
36        if stat97=0;

NOTE: The infile '97.dat' is:
        File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
        Owner Name=zumbrunn,Group Name=ACD0003,
        Access Permission=rw-------,
```

5                                         The SAS System                        07:31 Monday, October 26, 1998

        File Size (bytes)=11868

NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      8 at 35:12     11 at 35:32    10 at 35:51    8 at 35:67
NOTE: The data set WORK.T97 has 291 observations and 12 variables.
NOTE: DATA statement used:
      real time              0.21 seconds
      cpu time               0.06 seconds


37          proc sort; by block plot tag;
38

NOTE: The data set WORK.T97 has 291 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time              0.15 seconds
      cpu time               0.01 seconds


39          data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
40          if tag;
41          ba90 = (dbh90**2)* .005454;
42          ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
43          ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
44          ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;
45
46          woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
47          woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
48          woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
49          woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
50          woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
51          woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;
52
53          csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
54          csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
55          csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
56          csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
57          csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
58

NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1219 at 42:42    1219 at 42:46    1224 at 43:14    1224 at 43:18    1227 at 43:42    1227 at 43:46    1331 at 44:14
      1331 at 44:18    1229 at 44:42    1229 at 44:46    1219 at 47:47    1219 at 47:54    1219 at 47:58    1219 at 47:84
      1224 at 48:47    1224 at 48:54    1224 at 48:58    1224 at 48:84    1227 at 49:47    1227 at 49:54    1227 at 49:58
      1227 at 49:84    1330 at 50:47    1330 at 50:54    1330 at 50:84    1229 at 51:47    1229 at 51:54
      1229 at 51:58    1229 at 51:84    1219 at 53:19    1219 at 53:29    1219 at 53:38    1224 at 54:19    1224 at 54:29
      1224 at 54:38    1227 at 55:19    1227 at 55:29    1227 at 55:38    1330 at 56:19    1330 at 56:29    1330 at 56:38
      1229 at 57:19    1229 at 57:29    1229 at 57:38

```
NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
NOTE: DATA statement used:
      real time          3.46 seconds
      cpu time           1.11 seconds


59          proc means noprint nway; var grd_tree ba90--ba97 dbh91--crnht97
60            sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
61      .     output out=mean mean=
62            n(dbh92 dbh93 dbh94 dbh95 dbh97)=n_92-n_95 n_97; by block plot;
63

NOTE: The data set WORK.MEAN has 18 observations and 81 variables.
NOTE: PROCEDURE MEANS used:    .
      real time          0.27 seconds
      cpu time           0.14 seconds


64          data mean; set mean;
65          if block=1 and plot=1 then treat=1;
66          if block=1 and plot=2 then treat=3;
67          if block=1 and plot=3 then treat=4;
68          if block=1 and plot=4 then treat=5;
69          if block=2 and plot=1 then treat=3;
70          if block=2 and plot=2 then treat=5;
71          if block=2 and plot=3 then treat=1;
72          if block=2 and plot=4 then treat=4;
73          if block=3 and plot=1 then treat=2;
74          if block=3 and plot=2 then treat=5;
75          if block=3 and plot=3 then treat=3;
76          if block=3 and plot=4 then treat=4;  _
77          if block=3 and plot=5 then treat=1;
78          if block=4 and plot=1 then treat=5;
79          if block=4 and plot=2 then treat=3;
80          if block=4 and plot=3 then treat=4;
81          if block=4 and plot=4 then treat=2;
82          if block=4 and plot=5 then treat=1;
83          t_trees = _freq_;
84          hec= .15 * .404686;
85          acre=.15;
86          if block=2 and plot=4 then hec= .10 * .404686;
87          if block=1 and plot=3 then hec= .10 * .404686;
88          if block=2 and plot=4 then acre=.10;
89          if block=1 and plot=3 then acre=.10;
90
91          qmd90=sqrt(ba90/.005454);
92          qmd91=sqrt(ba91/.005454);
93          qmd92=sqrt(ba92/.005454);
94          qmd93=sqrt(ba93/.005454);
95          qmd94=sqrt(ba94/.005454);
96          qmd95=sqrt(ba95/.005454);
97          qmd97=sqrt(ba97/.005454);
98
```

```
99         t_den= t_trees/acre;
100
101        t_ba90=t_trees*ba90/acre;
102        t_ba91=t_trees*ba91/acre;
103        t_ba92=t_trees*ba92/acre;
104        t_ba93=t_trees*ba93/acre;
105        t_ba94=t_trees*ba94/acre;
106        t_ba95=t_trees*ba95/acre;
107        t_ba97=t_trees*ba97/acre;
108
109        t_spba91=t_trees*sap_ba91/acre;
110        t_spba92=t_trees*sap_ba92/acre;
111        t_spba93=t_trees*sap_ba93/acre;
112        t_spba94=t_trees*sap_ba94/acre;
113        t_spba95=t_trees*sap_ba95/acre;
114        t_spba97=t_trees*sap_ba97/acre;
115
```

```
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      5 at 96:7    5 at 96:16    5 at 106:15   5 at 106:20   5 at 113:17   5 at 113:26
NOTE: The data set WORK.MEAN has 18 observations and 106 variables.
NOTE: DATA statement used:
      real time           0.26 seconds
      cpu time            0.10 seconds


116        proc print;
NOTE: The PROCEDURE PRINT printed pages 1-4.
NOTE: PROCEDURE PRINT used:
      real time           0.28 seconds
      cpu time            0.10 seconds


NOTE: The SAS System used:
      real time           14.23 seconds
      cpu time            2.55 seconds

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
```

| OBS | BLOCK | PLOT | _TYPE_ | _FREQ_ | GRD_TREE | BA90 | BA91 | BA92 | BA93 | BA94 | BA95 | BA97 | DBH91 | HRT91 | SAP91 | RAD1091 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 0 | 52 | 0.0000 | 0.28232 | 0.28232 | 0.27516 | 0.31558 | 0.28185 | 0.33655 | 0.30799 | 7.13462 | 1.77596 | 1.57212 | 0.25962 |
| 2 | 1 | 2 | 0 | 55 | 40.0000 | 0.27631 | 0.27631 | 0.27508 | 0.30113 | 0.31297 | 0.30623 | 0.27686 | 7.08364 | 1.61909 | 1.32909 | 0.26273 |
| 3 | 1 | 3 | 0 | 62 | 11.2903 | 0.21126 | 0.21126 | 0.21558 | 0.19291 | 0.25391 | 0.21786 | 0.22005 | 6.13387 | 1.41129 | 1.28468 | 0.22016 |
| 4 | 1 | 4 | 0 | 90 | 40.0000 | 0.26252 | 0.26252 | 0.26555 | 0.28951 | 0.24968 | 0.29170 | 0.30603 | 6.85444 | 1.54778 | 1.41556 | 0.25333 |
| 5 | 2 | 1 | 0 | 88 | 40.9091 | 0.18409 | 0.18409 | 0.16974 | 0.22892 | 0.16752 | 0.22032 | 0.18450 | 5.66023 | 1.53409 | 1.08125 | 0.24432 |
| 6 | 2 | 2 | 0 | 123 | 39.8374 | 0.17074 | 0.17074 | 0.18180 | 0.16575 | 0.19062 | 0.20973 | 0.19556 | 5.47724 | 1.48984 | 0.92439 | 0.17154 |
| 7 | 2 | 3 | 0 | 73 | 0.0000 | 0.23029 | 0.23029 | 0.20529 | 0.23027 | 0.26139 | 0.27159 | 0.24430 | 6.42740 | 1.58562 | 1.09110 | 0.20959 |
| 8 | 2 | 4 | 0 | 77 | 6.4935 | 0.15559 | 0.15559 | 0.15291 | 0.13832 | 0.16772 | 0.18487 | 0.15716 | 5.26883 | 1.28052 | 1.03182 | 0.21753 |
| 9 | 3 | 1 | 0 | 61 | 13.1148 | 0.14893 | 0.14893 | 0.20280 | 0.13443 | 0.15895 | 0.17379 | 0.19987 | 4.84426 | 0.55000 | 1.57213 | 0.61230 |
| 10 | 3 | 2 | 0 | 104 | 32.6923 | 0.15458 | 0.15458 | 0.16797 | 0.23488 | 0.17666 | 0.16263 | 0.16909 | 4.87981 | 0.70529 | 1.55288 | 0.63510 |
| 11 | 3 | 3 | 0 | 72 | 31.9444 | 0.12593 | 0.12593 | 0.14849 | 0.13995 | 0.13818 | 0.18070 | 0.16726 | 4.53056 | 0.59653 | 1.44375 | 0.62361 |
| 12 | 3 | 4 | 0 | 73 | 15.0685 | 0.14241 | 0.14241 | 0.15007 | 0.15286 | 0.18793 | 0.19251 | 0.16168 | 4.75890 | 0.60205 | 1.57123 | 0.61233 |
| 13 | 3 | 5 | 0 | 92 | 0.0000 | 0.09582 | 0.09582 | 0.08930 | 0.10846 | 0.10255 | 0.16656 | 0.14603 | 3.86848 | 0.43478 | 1.33533 | 0.69130 |
| 14 | 4 | 1 | 0 | 99 | 40.4040 | 0.08636 | 0.08636 | 0.10501 | 0.11002 | 0.10955 | . | 0.10069 | 3.83838 | 0.42677 | 1.22778 | 0.69293 |
| 15 | 4 | 2 | 0 | 85 | 38.8235 | 0.06619 | 0.06619 | 0.07596 | 0.08569 | 0.08546 | . | 0.09288 | 3.30706 | 0.37412 | 1.18412 | 0.70824 |
| 16 | 4 | 3 | 0 | 119 | 15.1261 | 0.06024 | 0.06024 | 0.07224 | 0.07114 | 0.09327 | . | 0.09830 | 3.21933 | 0.24454 | 1.20210 | 0.82647 |
| 17 | 4 | 4 | 0 | 83 | 14.4578 | 0.06932 | 0.06932 | 0.08684 | 0.09362 | 0.09917 | . | 0.12221 | 3.47229 | 0.28675 | 1.26687 | 0.85602 |
| 18 | 4 | 5 | 0 | 112 | 0.0000 | 0.04855 | 0.04855 | 0.05231 | 0.05438 | 0.09792 | . | 0.08987 | 2.81161 | 0.19955 | 1.05313 | 0.80804 |

| OBS | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 | STAT92 | DBH92 | HRT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRNHT92 | CRNTP92 | STAT93 | DBH93 | HRT93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.13077 | 40.4038 | 14.4808 | 40.4038 | 0 | 7.06364 | 1.97273 | 1.49091 | 0.25000 | 0.14545 | 40.3636 | 19.3636 | 40.3636 | 0 | 7.51000 | 2.07000 |
| 2 | 0.12455 | 39.3455 | 15.3455 | 39.3455 | 0 | 7.04545 | 1.67727 | 1.59091 | 0.23636 | 0.10455 | 40.8182 | 17.3636 | 40.8182 | 0 | 7.39000 | 1.57500 |
| 3 | 0.10806 | 37.2581 | 15.7903 | 37.2581 | 0 | 6.23077 | 1.52308 | 1.54615 | 0.16923 | 0.08462 | 39.0769 | 21.1538 | 39.0769 | 0 | 5.85833 | 1.37917 |
| 4 | 0.12278 | 41.2889 | 17.5778 | 41.2889 | 0 | 6.86875 | 1.58750 | 1.31250 | 0.21563 | 0.10000 | 43.3750 | 23.3750 | 43.3750 | 0 | 7.21250 | 1.68750 |
| 5 | 0.12330 | 34.1364 | 12.0455 | 34.1364 | 0 | 5.41250 | 1.52188 | 0.97813 | 0.15000 | 0.08125 | 34.0000 | 11.5000 | 34.0000 | 0 | 6.30667 | 1.63333 |
| 6 | 0.07927 | 35.1545 | 13.3008 | 35.1545 | 0 | 5.68571 | 1.37857 | 1.02857 | 0.15000 | 0.06667 | 36.4762 | 14.1429 | 36.4762 | 0 | 5.32632 | 1.40263 |
| 7 | 0.09863 | 37.0000 | 13.3151 | 37.0000 | 0 | 6.10000 | 1.48929 | 1.17500 | 0.19643 | 0.09286 | 36.9286 | 12.7857 | 37.1429 | 0 | 6.43333 | 1.65000 |
| 8 | 0.10065 | 33.7013 | 12.7662 | 33.7013 | 0 | 5.24667 | 1.42667 | 1.07000 | 0.21667 | 0.09667 | 33.2000 | 12.4000 | 32.2667 | 0 | 4.99375 | 1.08750 |
| 9 | 0.29754 | 25.6885 | 4.5574 | 25.6885 | 0 | 5.87692 | 0.81154 | 1.80000 | 0.60769 | 0.26923 | 29.9231 | 5.4615 | 29.9231 | 0 | 4.60000 | 0.57500 |
| 10 | 0.31346 | 26.6923 | 5.2115 | 26.6923 | 0 | 5.26190 | 1.00000 | 1.35000 | 0.63810 | 0.30238 | 28.2381 | 5.4286 | 28.2381 | 0 | 6.18571 | 1.02619 |
| 11 | 0.31667 | 25.4722 | 4.4306 | 25.4722 | 0 | 4.90000 | 0.74667 | 1.43000 | 0.60333 | 0.28667 | 25.6000 | 4.3333 | 25.6000 | 0 | 4.84000 | 0.71667 |
| 12 | 0.30274 | 26.4521 | 4.3973 | 26.4521 | 0 | 4.96000 | 0.79333 | 1.59333 | 0.63000 | 0.28333 | 28.0000 | 5.1333 | 28.0000 | 0 | 4.96667 | 0.62000 |
| 13 | 0.35054 | 21.6739 | 3.5978 | 21.6739 | 0 | 3.77895 | 0.49211 | 1.26842 | 0.59474 | 0.28684 | 21.3158 | 3.5263 | 21.3158 | 0 | 4.20526 | 0.40789 |
| 14 | 0.33333 | 24.2020 | 4.3434 | 24.2020 | 0 | 4.21000 | 0.50250 | 1.37250 | 0.57750 | 0.26250 | 24.6000 | 5.3000 | 24.6000 | 0 | 4.41500 | 0.59250 |
| 15 | 0.32176 | 19.5176 | 3.2000 | 19.5176 | 0 | 3.61765 | 0.45588 | 1.14412 | 0.64118 | 0.29118 | 20.8824 | 3.3529 | 20.8824 | 0 | 3.78824 | 0.42941 |
| 16 | 0.39118 | 17.9748 | 2.8824 | 17.9748 | 0 | 3.52917 | 0.39375 | 1.20625 | 0.78958 | 0.36667 | 18.8333 | 3.5833 | 18.7500 | 0 | 3.42500 | 0.37521 |
| 17 | 0.40964 | 17.7831 | 2.4337 | 17.7831 | 0 | 3.87647 | 0.44412 | 1.35000 | 0.91176 | 0.42353 | 19.4118 | 2.3529 | 19.4118 | 0 | 4.05294 | 0.47647 |
| 18 | 0.38571 | 14.9821 | 1.9018 | 14.9821 | 0 | 2.98261 | 0.29348 | 1.08478 | 0.81087 | 0.36522 | 15.1739 | 2.1304 | 15.1739 | 0 | 3.05217 | 0.26522 |

| OBS | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRNHT93 | CRNTP93 | STAT94 | DBH94 | HRT94 | SAP94 | RAD1094 | RAD0594 | STMLN94 | CRNHT94 | CRNTP94 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.64500 | 0.19000 | 0.09500 | 40.5000 | 16.9000 | 39.9000 | 0 | 7.14000 | 1.97500 | 1.59000 | 0.35000 | 0.18000 | 40.7000 | 20.1000 | 40.7000 |
| 2 | 1.38000 | 0.22000 | 0.10500 | 41.3000 | 14.9000 | 41.2000 | 0 | 7.55000 | 1.59500 | 1.51500 | 0.31500 | 0.18000 | 42.1000 | 18.7000 | 42.1000 |
| 3 | 1.14167 | 0.19583 | 0.09167 | 36.0000 | 16.9167 | 36.0000 | 0 | 6.79167 | 1.50417 | 1.44167 | 0.25833 | 0.12917 | 38.7500 | 20.7500 | 38.7500 |
| 4 | 1.49375 | 0.22500 | 0.10000 | 42.0000 | 22.1875 | 42.0000 | 0 | 6.68235 | 1.33824 | 1.52647 | 0.24118 | 0.11176 | 40.2353 | 20.6471 | 40.2353 |
| 5 | 1.11000 | 0.20667 | 0.10000 | 36.2000 | 12.7333 | 36.2000 | 0 | 5.43333 | 1.33333 | 0.98333 | 0.20000 | 0.10000 | 33.2667 | 16.1333 | 32.9333 |
| 6 | 1.00000 | 0.15000 | 0.06842 | 34.9474 | 14.2105 | 34.9474 | 0 | 5.83684 | 1.55263 | 0.93158 | 0.20789 | 0.09474 | 36.6842 | 19.7368 | 35.6842 |
| 7 | 1.07667 | 0.17667 | 0.08000 | 37.2667 | 16.2667 | 37.2667 | 0 | 6.87333 | 1.62333 | 1.14333 | 0.19667 | 0.09333 | 38.0667 | 19.2000 | 38.0667 |
| 8 | 1.03438 | 0.16563 | 0.07188 | 33.1875 | 16.2500 | 33.1875 | 0 | 5.49333 | 1.27667 | 0.95000 | 0.17000 | 0.08000 | 36.0000 | 19.6000 | 36.0000 |
| 9 | 1.34167 | 0.45000 | 0.23333 | 23.4167 | 4.3333 | 23.4167 | 0 | 5.11667 | 0.68750 | 1.48750 | 0.45833 | 0.20000 | 27.4167 | 7.1667 | 27.4167 |
| 10 | 1.61667 | 0.55714 | 0.24286 | 30.3333 | 5.2381 | 30.3333 | 0 | 5.37619 | 0.84524 | 1.38095 | 0.46905 | 0.19881 | 26.7619 | 8.0000 | 26.4286 |
| 11 | 1.35000 | 0.53333 | 0.22667 | 25.8000 | 5.0667 | 25.8000 | 0 | 4.75000 | 0.72500 | 1.31786 | 0.54286 | 0.24286 | 26.5000 | 6.3571 | 26.5000 |
| 12 | 1.56333 | 0.60333 | 0.30000 | 27.0000 | 5.0000 | 27.0000 | 0 | 5.62000 | 0.84667 | 1.62000 | 0.55667 | 0.24333 | 29.2667 | 7.7333 | 29.2333 |
| 13 | 1.44737 | 0.62368 | 0.27632 | 21.5789 | 3.3158 | 21.5789 | 0 | 4.05000 | 0.44444 | 1.33889 | 0.57500 | 0.28889 | 21.8889 | 5.6111 | 21.8889 |
| 14 | 1.39500 | 0.58500 | 0.25750 | 25.3000 | 4.9500 | 25.3000 | 0 | 4.31500 | 0.65250 | 1.15750 | 0.45000 | 0.18750 | 24.8500 | 7.0500 | 24.4500 |
| 15 | 1.17647 | 0.56176 | 0.25294 | 20.5294 | 3.7059 | 20.5294 | 0 | 3.77500 | 0.55000 | 1.11875 | 0.48438 | 0.20625 | 20.8125 | 5.5625 | 19.6875 |
| 16 | 1.18333 | 0.75833 | 0.34375 | 18.1667 | 3.0000 | 18.6250 | 0 | 4.01200 | 0.50000 | 1.27200 | 0.69800 | 0.30600 | 20.6000 | 5.4800 | 20.3200 |
| 17 | 1.32059 | 0.83235 | 0.39118 | 18.8235 | 3.1176 | 18.8235 | 0 | 4.21765 | 0.47059 | 1.40000 | 0.69706 | 0.30588 | 20.1176 | 4.7059 | 20.0882 |
| 18 | 1.01087 | 0.75652 | 0.34565 | 15.1304 | 2.1739 | 15.1304 | 0 | 3.95909 | 0.32727 | 1.27273 | 0.68864 | 0.30227 | 18.1818 | 4.2273 | 18.1818 |

| OBS | STAT95 | DBH95 | HRT95 | SAP95 | RAD0595 | RAD1095 | STMLN95 | CRNHT95 | CRNTP95 | STAT97 | DBH97 | SAP97 | HRT97 | RAD0597 | RAD1097 | STMLN97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 7.77000 | 2.08500 | 1.70500 | 0.15500 | 0.31000 | 37.5000 | 37.5000 | 19.1000 | 0 | 7.48000 | 1.47500 | 1.73500 | 0.11300 | 0.16900 | 43.1000 |
| 2 | 0 | 7.47000 | 1.49500 | 1.92000 | 0.13000 | 0.24500 | 38.4600 | 37.9600 | 20.8000 | 0 | 7.11000 | 1.34500 | 1.75500 | 0.08050 | 0.13500 | 40.5000 |
| 3 | 0 | 6.20833 | 1.45417 | 1.22917 | 0.13750 | 0.24583 | 37.3833 | 37.3833 | 22.7500 | 0 | 6.21818 | 0.98182 | 1.29545 | 0.04750 | 0.09050 | 39.6364 |
| 4 | 0 | 7.14375 | 1.39688 | 1.60938 | 0.18750 | 0.32500 | 38.8125 | 38.8688 | 23.7000 | 0 | 7.46000 | 1.36667 | 1.49000 | 0.07600 | 0.13900 | 45.4000 |
| 5 | 0 | 6.26000 | 1.08333 | 1.60000 | 0.29000 | 0.44667 | 34.5467 | 54.5600 | 17.8400 | 0 | 5.69375 | 1.02188 | 1.37500 | 0.05154 | 0.10154 | 35.2500 |
| 6 | 0 | 6.14118 | 0.99722 | 1.39444 | 0.23611 | 0.37222 | 36.9706 | 36.9706 | 21.8176 | 0 | 5.83158 | 1.06316 | 1.46842 | 0.05353 | 0.08676 | 35.7368 |
| 7 | 0 | 6.96000 | 1.22667 | 1.82000 | 0.23333 | 0.33333 | 35.6000 | 35.6000 | 18.3400 | 0 | 6.62143 | 1.11786 | 1.61429 | 0.04545 | 0.07955 | 37.7857 |
| 8 | 0 | 5.74000 | 1.12667 | 1.26667 | 0.24667 | 0.36667 | 33.4000 | 33.4000 | 17.5533 | 0 | 5.31250 | 0.99375 | 1.37500 | 0.04438 | 0.08906 | 34.3750 |
| 9 | 0 | 5.35000 | 1.57500 | 0.90417 | 0.35417 | 0.60000 | 27.7500 | 27.7500 | 5.2500 | 0 | 5.72500 | 0.98750 | 1.47500 | 0.08375 | 0.19750 | 28.4167 |
| 10 | 0 | 5.04762 | 1.32619 | 1.09762 | 0.33095 | 0.57619 | 26.7619 | 26.7143 | 5.6190 | 0 | 5.14500 | 1.01750 | 1.11750 | 0.11625 | 0.25625 | 28.1000 |
| 11 | 0 | 5.58462 | 1.41538 | 0.93462 | 0.33846 | 0.59615 | 28.9231 | 28.6154 | 5.9231 | 0 | 5.34667 | 1.34667 | 0.99000 | 0.10167 | 0.23433 | 27.9333 |
| 12 | 0 | 5.44286 | 1.43571 | 0.94286 | 0.37143 | 0.66071 | 28.7857 | 28.7857 | 5.8571 | 0 | 5.21429 | 1.06071 | 1.23214 | 0.09286 | 0.21857 | 29.3571 |
| 13 | 0 | 5.30000 | 1.27632 | 1.05263 | 0.40526 | 0.75526 | 26.4211 | 26.4211 | 4.7368 | 0 | 4.85789 | 1.25526 | 0.85526 | 0.10158 | 0.24053 | 26.1579 |
| 14 | . | . | . | . | . | . | . | . | . | 0 | 4.17895 | 0.73684 | 1.08947 | 0.08605 | 0.21842 | 26.7368 |
| 15 | . | . | . | . | . | . | . | . | . | 0 | 3.96471 | 0.87059 | 0.86176 | 0.07971 | 0.19563 | 20.9412 |
| 16 | . | . | . | . | . | . | . | . | . | 0 | 4.16400 | 0.80800 | 0.97000 | 0.11780 | 0.28720 | 21.9200 |
| 17 | . | . | . | . | . | . | . | . | . | 0 | 4.63125 | 1.28125 | 0.85938 | 0.13313 | 0.32563 | 21.3125 |
| 18 | . | . | . | . | . | . | . | . | . | 0 | 3.94348 | 1.03696 | 0.65435 | 0.11870 | 0.29848 | 19.5652 |

| OBS | CRNTP97 | CRNHT97 | SAP_BA91 | SAP_BA92 | SAP_BA93 | SAP_BA94 | SAP_BA95 | SAP_BA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_92 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 43.1000 | 23.1000 | 0.17526 | 0.15462 | 0.14739 | 0.15842 | 0.14545 | 0.17744 | -15.1118 | -15.0220 | -12.4676 | -13.4210 | 0.2046 | 11 |
| 2 | 35.2000 | 19.7000 | 0.13448 | 0.11158 | 0.17905 | 0.13743 | 0.15760 | 0.10891 | -10.1160 | 6.8929 | -4.7288 | 8.2368 | -18.1792 | 11 |
| 3 | 40.5455 | 23.8182 | 0.11874 | 0.10266 | 0.10593 | 0.15045 | 0.10650 | 0.11297 | -20.9069 | 0.2002 | 2.3701 | -11.9188 | 5.4239 | 13 |
| 4 | 42.1333 | 25.0667 | 0.14117 | 0.13168 | 0.15193 | 0.14066 | 0.16150 | 0.15482 | 6.4375 | -8.7158 | 6.2023 | 16.3275 | -0.0610 | 16 |
| 5 | 32.4375 | 18.3125 | 0.10338 | 0.08768 | 0.12975 | 0.11681 | 0.13505 | 0.08404 | -7.4955 | 1.6774 | 13.4399 | 26.7624 | -0.3873 | 16 |
| 6 | 35.6842 | 20.7368 | 0.08170 | 0.09696 | 0.09047 | 0.09282 | 0.12985 | 0.08042 | 7.8444 | -0.2361 | -0.0695 | 35.6154 | -12.4498 | 21 |
| 7 | 37.7857 | 19.8571 | 0.10283 | 0.08580 | 0.09805 | 0.11481 | 0.13535 | 0.09495 | -6.4905 | -6.0013 | 2.2123 | 33.3220 | -4.5402 | 14 |
| 8 | 34.3750 | 19.0000 | 0.08295 | 0.06427 | 0.08885 | 0.08483 | 0.08881 | 0.06146 | -18.9418 | 3.5445 | 2.9209 | 13.3264 | -20.0818 | 15 |
| 9 | 28.0833 | 9.3333 | 0.10529 | 0.13117 | 0.07546 | 0.07782- | 0.06079 | 0.07575 | -6.4343 | -6.0247 | -5.8965 | -76.3417 | -39.4007 | 13 |
| 10 | 28.1000 | 11.1000 | 0.11442 | 0.10462 | 0.14580 | 0.09787 | 0.06441 | 0.08023 | -16.4836 | -5.8508 | -5.1248 | -52.6247 | -37.2076 | 21 |
| 11 | 26.8667 | 9.7333 | 0.09081 | 0.09817 | 0.08256 | 0.08052 | 0.06831 | 0.07730 | -2.1844 | -6.4908 | -6.0824 | -46.9318 | -17.9121 | 15 |
| 12 | 29.3571 | 9.7143 | 0.10729 | 0.09563 | 0.10987 | 0.11412 | 0.05913 | 0.07020 | -6.1854 | -2.3710 | -9.7140 | -57.3245 | -32.7258 | 15 |
| 13 | 26.1579 | 7.7895 | 0.07452 | 0.05097 | 0.07300 | 0.06379 | 0.06248 | 0.06905 | -8.2177 | -0.7664 | -1.2834 | -37.5903 | -21.5748 | 19 |
| 14 | 24.1053 | 10.1579 | 0.05951 | 0.06612 | 0.06225 | 0.04824 | . | 0.03000 | -3.0220 | -7.9124 | -9.7863 | . | -56.8474 | 20 |
| 15 | 16.4706 | 6.9412 | 0.05553 | 0.05136 | 0.06475 | 0.04561 | . | 0.03975 | -4.6661 | -0.6540 | -10.6230 | . | -32.6994 | 17 |
| 16 | 21.3600 | 6.4400 | 0.04710 | 0.04305 | 0.04292 | 0.04225 | . | 0.02256 | -4.6178 | -5.9469 | -10.7376 | . | -66.4673 | 24 |
| 17 | 19.9375 | 6.0625 | 0.05339 | 0.04696 | 0.04809 | 0.05093 | . | 0.03957 | -6.3650 | -8.2334 | -5.7093 | . | -31.8463 | 17 |
| 18 | 19.5652 | 5.3043 | 0.03790 | 0.02971 | 0.02853 | 0.05617 | . | 0.02936 | -3.9670 | -4.9354 | -3.0909 | . | -31.7609 | 23 |

| OBS | N_93 | N_94 | N_95 | N_97 | TREAT | T_TREES | HEC | ACRE | QMD90 | QMD91 | QMD92 | QMD93 | QMD94 | QMD95 | QMD97 | T_DEN | T_BA90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 10 | 10 | 10 | 10 | 1 | 52 | 0.060703 | 0.15 | 7.19466 | 7.19466 | 7.10294 | 7.60677 | 7.18874 | 7.85538 | 7.51465 | 346.667 | 97.869 |
| 2 | 10 | 10 | 10 | 10 | 3 | 55 | 0.060703 | 0.15 | 7.11771 | 7.11771 | 7.10192 | 7.43055 | 7.57516 | 7.49313 | 7.12482 | 366.667 | 101.314 |
| 3 | 12 | 12 | 12 | 11 | 4 | 62 | 0.040469 | 0.10 | 6.22369 | 6.22369 | 6.28711 | 5.94734 | 6.82306 | 6.32014 | 6.35195 | 620.000 | 130.979 |
| 4 | 16 | 17 | 16 | 15 | 5 | 90 | 0.060703 | 0.15 | 6.93778 | 6.93778 | 6.97769 | 7.28569 | 6.76600 | 7.31330 | 7.49075 | 600.000 | 157.510 |
| 5 | 15 | 15 | 15 | 16 | 3 | 88 | 0.060703 | 0.15 | 5.80980 | 5.80980 | 5.57875 | 6.47858 | 5.54214 | 6.35584 | 5.81620 | 586.667 | 108.001 |
| 6 | 19 | 19 | 17 | 19 | 5 | 123 | 0.060703 | 0.15 | 5.59514 | 5.59514 | 5.77350 | 5.51276 | 5.91194 | 6.20114 | 5.98797 | 820.000 | 140.007 |
| 7 | 15 | 15 | 15 | 14 | 1 | 73 | 0.060703 | 0.15 | 6.49797 | 6.49797 | 6.13514 | 6.49774 | 6.92286 | 7.05663 | 6.69269 | 486.667 | 112.073 |
| 8 | 16 | 15 | 15 | 16 | 4 | 77 | 0.040469 | 0.10 | 5.34108 | 5.34108 | 5.29497 | 5.03593 | 5.54545 | 5.82208 | 5.36808 | 770.000 | 119.802 |
| 9 | 12 | 12 | 12 | 12 | 2 | 61 | 0.060703 | 0.15 | 5.22549 | 5.22549 | 6.09792 | 4.96471 | 5.39846 | 5.64491 | 6.05358 | 406.667 | 60.563 |
| 10 | 21 | 21 | 21 | 20 | 5 | 104 | 0.060703 | 0.15 | 5.32374 | 5.32374 | 5.54956 | 6.56241 | 5.69130 | 5.46068 | 5.56808 | 693.333 | 107.174 |
| 11 | 15 | 14 | 13 | 15 | 3 | 72 | 0.060703 | 0.15 | 4.80512 | 4.80512 | 5.21785 | 5.06557 | 5.03339 | 5.75593 | 5.53787 | 480.000 | 60.446 |
| 12 | 15 | 15 | 14 | 14 | 4 | 73 | 0.060703 | 0.15 | 5.10994 | 5.10994 | 5.24557 | 5.29408 | 5.86998 | 5.94114 | 5.44466 | 486.667 | 69.307 |
| 13 | 19 | 18 | 19 | 19 | 1 | 92 | 0.060703 | 0.15 | 4.19144 | 4.19144 | 4.04631 | 4.45935 | 4.33622 | 5.52616 | 5.17438 | 613.333 | 58.768 |
| 14 | 20 | 20 | 0 | 19 | 5 | 99 | 0.060703 | 0.15 | 3.97934 | 3.97934 | 4.38794 | 4.49138 | 4.48180 | . | 4.29676 | 660.000 | 57.001 |
| 15 | 17 | 16 | 0 | 17 | 3 | 85 | 0.060703 | 0.15 | 3.48369 | 3.48369 | 3.73198 | 3.96366 | 3.95854 | . | 4.12681 | 566.667 | 37.508 |
| 16 | 24 | 25 | 0 | 25 | 4 | 119 | 0.060703 | 0.15 | 3.32332 | 3.32332 | 3.63931 | 3.61167 | 4.13546 | . | 4.24542 | 793.333 | 47.788 |
| 17 | 17 | 17 | 0 | 16 | 2 | 83 | 0.060703 | 0.15 | 3.56523 | 3.56523 | 3.99021 | 4.14310 | 4.26415 | . | 4.73372 | 553.333 | 38.360 |
| 18 | 23 | 22 | 0 | 23 | 1 | 112 | 0.060703 | 0.15 | 2.98345 | 2.98345 | 3.09684 | 3.15774 | 4.23712 | . | 4.05929 | 746.667 | 36.248 |

| OBS | T_BA91 | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 | T_SPBA94 | T_SPBA95 | T_SPBA97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 97.869 | 95.390 | 109.403 | 97.709 | 116.671 | 106.769 | 60.7565 | 53.6019 | 51.095 | 54.9197 | 50.422 | 61.5127 |
| 2 | 101.314 | 100.864 | 110.415 | 114.755 | 112.283 | 101.516 | 49.3107 | 40.9141 | 65.653 | 50.3910 | 57.786 | 39.9340 |
| 3 | 130.979 | 133.662 | 119.606 | 157.422 | 135.070 | 136.433 | 73.6165 | 63.6499 | 65.677 | 93.2809 | 66.032 | 70.0427 |
| 4 | 157.510 | 159.327 | 173.703 | 149.807 | 175.022 | 183.619 | 84.6999 | 79.0060 | 91.157 | 84.3971 | 96.898 | 92.8947 |
| 5 | 108.001 | 99.582 | 134.297 | 98.279 | 129.256 | 108.239 | 60.6525 | 51.4369 | 76.120 | 68.5286 | 79.230 | 49.3011 |
| 6 | 140.007 | 149.076 | 135.915 | 156.311 | 171.978 | 160.357 | 66.9940 | 79.5086 | 74.183 | 76.1135 | 106.480 | 65.9449 |
| 7 | 112.073 | 99.907 | 112.065 | 127.209 | 132.173 | 118.891 | 50.0434 | 41.7575 | 47.719 | 55.8726 | 65.872 | 46.2110 |
| 8 | 119.802 | 117.742 | 106.504 | 129.145 | 142.352 | 121.016 | 63.8745 | 49.4879 | 68.416 | 65.3203 | 68.383 | 47.3266 |
| 9 | 60.563 | 82.474 | 54.669 | 64.639 | 70.675 | 81.279 | 42.8183 | 53.3436 | 30.687 | 31.6466 | 24.721 | 30.8056 |
| 10 | 107.174 | 116.459 | 162.849 | 122.484 | 112.759 | 117.238 | 79.3310 | 72.5334 | 101.090 | 67.8552 | 44.655 | 55.6250 |
| 11 | 60.446 | 71.275 | 67.176 | 66.325 | 86.734 | 80.286 | 43.5895 | 47.1226 | 39.628 | 38.6517 | 32.786 | 37.1064 |
| 12 | 69.307 | 73.035 | 74.392 | 91.458 | 93.689 | 78.684 | 52.2159 | 46.5419 | 53.470 | 55.5382 | 28.778 | 34.1644 |
| 13 | 58.768 | 54.768 | 66.520 | 62.898 | 102.155 | 89.563 | 45.7071 | 31.2645 | 44.775 | 39.1268 | 38.323 | 42.3492 |
| 14 | 57.001 | 69.307 | 72.614 | 72.304 | . | 66.457 | 39.2793 | 43.6384 | 41.084 | 31.8388 | . | 19.7999 |
| 15 | 37.508 | 43.045 | 48.555 | 48.430 | . | 52.635 | 31.4692 | 29.1025 | 36.689 | 25.8471 | . | 22.5232 |
| 16 | 47.788 | 57.307 | 56.440 | 73.998 | . | 77.985 | 37.3654 | 34.1550 | 34.048 | 33.5157 | . | 17.8993 |
| 17 | 38.360 | 48.050 | 51.803 | 54.874 | . | 67.625 | 29.5400 | 25.9857 | 26.609 | 28.1817 | . | 21.8966 |
| 18 | 36.248 | 39.055 | 40.606 | 73.111 | . | 67.103 | 28.2950 | 22.1835 | 21.305 | 41.9430 | . | 21.9215 |

```
title ' status =1';
options ls=132 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
 if grd_tree<2 ;
grd_tree=grd_tree*100;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
if stat92=1;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
if stat93=1;
drop stat92x;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
if stat94=1;
drop stat93x;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
if stat95=1;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
if stat97=1;
proc sort; by block plot tag;

data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
if tag;
ba90 = (dbh90**2)* .005454;
ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;

woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;

csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
```

```
proc means noprint nway; var grd_tree ba90--ba97 dbh91--crnht97
 sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
 output out=mean mean=
  n(dbh92 dbh93 dbh94 dbh95 dbh97)=n_92-n_95 n_97; by block plot;

data mean; set mean;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
t_trees = _freq_;
hec= .15 * .404686;
acre=.15;
if block=2 and plot=4 then hec= .10 * .404686;
if block=1 and plot=3 then hec= .10 * .404686;
if block=2 and plot=4 then acre=.10;
if block=1 and plot=3 then acre=.10;

qmd90=sqrt(ba90/.005454);
qmd91=sqrt(ba91/.005454);
qmd92=sqrt(ba92/.005454);
qmd93=sqrt(ba93/.005454);
qmd94=sqrt(ba94/.005454);
qmd95=sqrt(ba95/.005454);
qmd97=sqrt(ba97/.005454);

t_den= t_trees/acre;

t_ba90=t_trees*ba90/acre;
t_ba91=t_trees*ba91/acre;
t_ba92=t_trees*ba92/acre;
t_ba93=t_trees*ba93/acre;
t_ba94=t_trees*ba94/acre;
t_ba95=t_trees*ba95/acre;
t_ba97=t_trees*ba97/acre;

t_spba91=t_trees*sap_ba91/acre;
t_spba92=t_trees*sap_ba92/acre;
t_spba93=t_trees*sap_ba93/acre;
t_spba94=t_trees*sap_ba94/acre;
t_spba95=t_trees*sap_ba95/acre;
t_spba97=t_trees*sap_ba97/acre;
```

1                                        The SAS System                              07:32 Monday, October 26, 1998

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12  TS045
      Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


    Welcome to SAS 6.12 TS-045!!  Installed February 1998.

    This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
    IML, INSIGHT, OR, QC, STAT and TUTOR options.

    The SAS software is for University use only, and may not be used
    for any commerical purposes.



NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
      real time           0.19 seconds
      cpu time            0.10 seconds

NOTE: DM statements are only valid in DMS mode.
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

1               title ' status =1';
2               options ls=132 ps=55;
3               data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
4               input block plot tag east north crown dbh90 rank grd_tree girdle;
5                if grd_tree<2 ;
6               grd_tree=grd_tree*100;

NOTE: The infile '90.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
      The minimum record length was 20.
      The maximum record length was 27.
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: DATA statement used:
      real time           0.35 seconds
      cpu time            0.17 seconds


7               proc sort; by block plot tag;

The SAS System                                    07:32 Monday, October 26, 1998


IOTE: The data set WORK.T90 has 1520 observations and 10 variables.
IOTE: PROCEDURE SORT used:
      real, time              0.24 seconds
      cpu time               0.06 seconds


}          data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
)          input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
10         CRNTP91=STMLN91; drop CRNWD91;

JOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time              0.33 seconds
      cpu time               0.16 seconds


11         proc sort; by block plot tag;

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time              0.22 seconds
      cpu time               0.08 seconds


12         data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
13         input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
14         if stat92=1;

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 9 observations and 12 variables.
NOTE: DATA statement used:
      real time              0.15 seconds
      cpu time               0.05 seconds

```
15        proc sort; by block plot tag;
```

NOTE: The data set WORK.T92 has 9 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.11 seconds
      cpu time            0.01 seconds


```
16        data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
17        input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
18        sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
19        if stat93=1;
20        drop stat92x;
```

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 5 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.16 seconds
      cpu time            0.06 seconds


```
21        proc sort; by block plot tag;
```

NOTE: The data set WORK.T93 has 5 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.11 seconds
      cpu time            0.01 seconds


```
22        data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
23        input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
24        sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
25        if stat94=1;
26        drop stat93x;
```

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.
NOTE: Missing values were generated as a result of performing an operation on missing values.

```
          Each place is given by: (Number of times) at (Line):(Column).
          3 at 24:12    3 at 24:32    3 at 24:51    3 at 24:67
NOTE: The data set WORK.T94 has 4 observations and 12 variables.
NOTE: DATA statement used:
          real time             0.15 seconds
          cpu time              0.06 seconds


27          proc sort; by block plot tag;

NOTE: The data set WORK.T94 has 4 observations and 12 variables.     .
NOTE: PROCEDURE SORT used:
          real time             0.12 seconds
          cpu time              0.01 seconds


28          data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
29          input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
30          sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
31          if stat95=1;

NOTE: The infile '95.dat' is:
          File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
          Owner Name=zumbrunn,Group Name=ACD0003,
          Access Permission=rw-------,
          File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
          The minimum record length was 31.
          The maximum record length was 42.
NOTE: The data set WORK.T95 has 3 observations and 12 variables.
NOTE: DATA statement used:
          real time             0.15 seconds
          cpu time              0.05 seconds


32          proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 3 observations and 12 variables.
NOTE: PROCEDURE SORT used:
          real time             0.11 seconds
          cpu time              0.00 seconds


33          data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
34          input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
35          sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
36          if stat97=1;

NOTE: The infile '97.dat' is:
          File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
          Owner Name=zumbrunn,Group Name=ACD0003,
          Access Permission=rw-------,
```

```
     File Size (bytes)=11868


NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      8 at 35:12    11 at 35:32    10 at 35:51    8 at 35:67
NOTE: The data set WORK.T97 has 5 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.15 seconds
      cpu time            0.06 seconds



37         proc sort; by block plot tag;
38


NOTE: The data set WORK.T97 has 5 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.12 seconds
      cpu time            0.01 seconds



39         data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
40         if tag;
41         ba90 = (dbh90**2)* .005454;
42         ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
43         ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
44         ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;
45
46         woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
47         woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
48         woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
49         woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
50         woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
51         woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;
52
53         csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
54         csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
55         csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
56         csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
57         csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
58


NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1511 at 42:42   1511 at 42:46   1515 at 43:14   1515 at 43:18   1519 at 43:42   1519 at 43:46   1517 at 44:14
      1517 at 44:18   1515 at 44:42   1515 at 44:46   1511 at 47:47   1511 at 47:54   1511 at 47:58   1511 at 47:84
      1515 at 48:47   1515 at 48:54   1515 at 48:58   1515 at 48:84   1519 at 49:47   1519 at 49:54   1519 at 49:58
      1519 at 49:84   1517 at 50:47   1517 at 50:54   1517 at 50:58   1517 at 50:84   1515 at 51:47   1515 at 51:54
      1515 at 51:58   1515 at 51:84   1511 at 53:19   1511 at 53:29   1511 at 53:38   1515 at 54:19   1515 at 54:29
      1515 at 54:38   1519 at 55:19   1519 at 55:29   1519 at 55:38   1517 at 56:19   1517 at 56:29   1517 at 56:38
      1515 at 57:19   1515 at 57:29   1515 at 57:38
```

```
NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
NOTE: DATA statement used:
      real time            3.45 seconds
      cpu time             1.07 seconds


59          proc means noprint nway; var grd_tree ba90--ba97 dbh91--crnht97
60           sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
61           output out=mean mean=
62           n(dbh92 dbh93 dbh94 dbh95 dbh97)=n_92-n_95 n_97; by block plot;
63

NOTE: The data set WORK.MEAN has 18 observations and 81 variables.
NOTE: PROCEDURE MEANS used:
      real time            0.23 seconds
      cpu time             0.10 seconds


64          data mean; set mean;
65          if block=1 and plot=1 then treat=1;
66          if block=1 and plot=2 then treat=3;
67          if block=1 and plot=3 then treat=4;
68          if block=1 and plot=4 then treat=5;
69          if block=2 and plot=1 then treat=3;
70          if block=2 and plot=2 then treat=5;
71          if block=2 and plot=3 then treat=1;
72          if block=2 and plot=4 then treat=4;
73          if block=3 and plot=1 then treat=2;
74          if block=3 and plot=2 then treat=5;
75          if block=3 and plot=3 then treat=3;
76          if block=3 and plot=4 then treat=4;
77          if block=3 and plot=5 then treat=1;
78          if block=4 and plot=1 then treat=5;
79          if block=4 and plot=2 then treat=3;
80          if block=4 and plot=3 then treat=4;
81          if block=4 and plot=4 then treat=2;
82          if block=4 and plot=5 then treat=1;
83          t_trees = _freq_;
84          hec= .15 * .404686;
85          acre=.15;
86          if block=2 and plot=4 then hec= .10 * .404686;
87          if block=1 and plot=3 then hec= .10 * .404686;
88          if block=2 and plot=4 then acre=.10;
89          if block=1 and plot=3 then acre=.10;
90
91          qmd90=sqrt(ba90/.005454);
92          qmd91=sqrt(ba91/.005454);
93          qmd92=sqrt(ba92/.005454);
94          qmd93=sqrt(ba93/.005454);
95          qmd94=sqrt(ba94/.005454);
96          qmd95=sqrt(ba95/.005454);
97          qmd97=sqrt(ba97/.005454);
98
```

7                            The SAS System                   07:32 Monday, October 26, 1998

```
99          t_den= t_trees/acre;
100
101         t_ba90=t_trees*ba90/acre;
102         t_ba91=t_trees*ba91/acre;
103         t_ba92=t_trees*ba92/acre;
104         t_ba93=t_trees*ba93/acre;
105         t_ba94=t_trees*ba94/acre;
106         t_ba95=t_trees*ba95/acre;
107         t_ba97=t_trees*ba97/acre;
108
109         t_spba91=t_trees*sap_ba91/acre;
110         t_spba92=t_trees*sap_ba92/acre;
111         t_spba93=t_trees*sap_ba93/acre;
112         t_spba94=t_trees*sap_ba94/acre;
113         t_spba95=t_trees*sap_ba95/acre;
114         t_spba97=t_trees*sap_ba97/acre;
115
```

```
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      12 at 93:7     12 at 93:16    15 at 94:7     15 at 94:16    17 at 95:7     17 at 95:16    15 at 96:7     15 at 96:16
      15 at 97:7     15 at 97:16    12 at 103:15   12 at 103:20   15 at 104:15   15 at 104:20   17 at 105:15   17 at 105:20
      15 at 106:15   15 at 106:20   15 at 107:15   15 at 107:20   12 at 110:17   12 at 110:26   15 at 111:17   15 at 111:26
      17 at 112:17   17 at 112:26   15 at 113:17   15 at 113:26   15 at 114:17   15 at 114:26
NOTE: The data set WORK.MEAN has 18 observations and 106 variables.
NOTE: DATA statement used:
      real time         0.21 seconds
      cpu time          0.09 seconds


116       proc print;
NOTE: The PROCEDURE PRINT printed pages 1-4.
NOTE: PROCEDURE PRINT used:
      real time         0.12 seconds
      cpu time          0.07 seconds


NOTE: The SAS System used:
      real time         6.76 seconds
      cpu time          2.24 seconds

NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
```

| OBS | BLOCK | PLOT | _TYPE_ | _FREQ_ | GRD_TREE | BA90 | BA91 | BA92 | BA93 | BA94 | BA95 | BA97 | DBH91 | HRT91 | SAP91 | RAD1091 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 0 | 52 | 0.0000 | 0.28232 | 0.28232 | . | . | . | . | . | 7.13462 | 1.77596 | 1.57212 | 0.25962 |
| 2 | 1 | 2 | 0 | 55 | 40.0000 | 0.27631 | 0.27631 | 0.27843 | . | . | . | . | 7.08364 | 1.61909 | 1.32909 | 0.26273 |
| 3 | 1 | 3 | 0 | 62 | 11.2903 | 0.21126 | 0.21126 | 0.21647 | 0.20965 | 0.21647 | 0.20965 | 0.24332 | 6.13387 | 1.41129 | 1.28468 | 0.22016 |
| 4 | 1 | 4 | 0 | 90 | 40.0000 | 0.26252 | 0.26252 | 0.41988 | 0.44177 | . | . | 0.29064 | 6.85444 | 1.54778 | 1.41556 | 0.25333 |
| 5 | 2 | 1 | 0 | 88 | 40.9091 | 0.18409 | 0.18409 | 0.19634 | . | . | . | . | 5.66023 | 1.53409 | 1.08125 | 0.24432 |
| 6 | 2 | 2 | 0 | 123 | 39.8374 | 0.17074 | 0.17074 | 0.18347 | . | . | 0.26725 | . | 5.47724 | 1.48984 | 0.92439 | 0.17154 |
| 7 | 2 | 3 | 0 | 73 | 0.0000 | 0.23029 | 0.23029 | . | . | . | . | . | 6.42740 | 1.58562 | 1.09110 | 0.20959 |
| 8 | 2 | 4 | 0 | 77 | 6.4935 | 0.15559 | 0.15559 | . | . | . | . | . | 5.26883 | 1.28052 | 1.03182 | 0.21753 |
| 9 | 3 | 1 | 0 | 61 | 13.1148 | 0.14893 | 0.14893 | . | . | . | . | . | 4.84426 | 0.55000 | 1.57213 | 0.61230 |
| 10 | 3 | 2 | 0 | 104 | 32.6923 | 0.15458 | 0.15458 | . | . | . | . | . | 4.87981 | 0.70529 | 1.55288 | 0.63510 |
| 11 | 3 | 3 | 0 | 72 | 31.9444 | 0.12593 | 0.12593 | . | . | . | 0.06681 | . | 4.53056 | 0.59653 | 1.44375 | 0.62361 |
| 12 | 3 | 4 | 0 | 73 | 15.0685 | 0.14241 | 0.14241 | . | . | . | . | . | 4.75890 | 0.60205 | 1.57123 | 0.61233 |
| 13 | 3 | 5 | 0 | 92 | 0.0000 | 0.09582 | 0.09582 | . | . | . | . | . | 3.86848 | 0.43478 | 1.33533 | 0.69130 |
| 14 | 4 | 1 | 0 | 99 | 40.4040 | 0.08636 | 0.08636 | . | . | . | . | 0.07068 | 3.83838 | 0.42677 | 1.22778 | 0.69293 |
| 15 | 4 | 2 | 0 | 85 | 38.8235 | 0.06619 | 0.06619 | 0.01969 | 0.03398 | . | . | . | 3.30706 | 0.37412 | 1.18412 | 0.70824 |
| 16 | 4 | 3 | 0 | 119 | 15.1261 | 0.06024 | 0.06024 | . | . | . | . | . | 3.21933 | 0.24454 | 1.20210 | 0.82647 |
| 17 | 4 | 4 | 0 | 83 | 14.4578 | 0.06932 | 0.06932 | . | . | . | . | . | 3.47229 | 0.28675 | 1.26687 | 0.85602 |
| 18 | 4 | 5 | 0 | 112 | 0.0000 | 0.04855 | 0.04855 | . | . | . | . | . | 2.81161 | 0.19955 | 1.05313 | 0.80804 |

| OBS | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 | STAT92 | DBH92 | HRT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRNHT92 | CRNTP92 | STAT93 | DBH93 | HRT93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.13077 | 40.4038 | 14.4808 | 40.4038 | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | 0.12455 | 39.3455 | 15.3455 | 39.3455 | 1 | 7.10 | 1.875 | 1.425 | 0.200 | 0.100 | 40.5 | 24.0 | 40.5 | . | . | . |
| 3 | 0.10806 | 37.2581 | 15.7903 | 37.2581 | 1 | 6.30 | 1.800 | 0.950 | 0.150 | 0.050 | 45.0 | 23.0 | 45.0 | 1 | 6.20000 | 1.90000 |
| 4 | 0.12278 | 41.2889 | 17.5778 | 41.2889 | 1 | 8.75 | 1.950 | 1.375 | 0.225 | 0.125 | 46.0 | 31.0 | 46.0 | 1 | 9.00000 | 3.35000 |
| 5 | 0.12330 | 34.1364 | 12.0455 | 34.1364 | 1 | 6.00 | 2.100 | 0.000 | 0.150 | 0.050 | 35.0 | 20.0 | 35.0 | . | . | . |
| 6 | 0.07927 | 35.1545 | 13.3008 | 35.1545 | 1 | 5.80 | 2.125 | 0.875 | 0.125 | 0.075 | 39.0 | 19.5 | 39.0 | . | . | . |
| 7 | 0.09863 | 37.0000 | 13.3151 | 37.0000 | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | 0.10065 | 33.7013 | 12.7662 | 33.7013 | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | 0.29754 | 25.6885 | 4.5574 | 25.6885 | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | 0.31346 | 26.6923 | 5.2115 | 26.6923 | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | 0.31667 | 25.4722 | 4.4306 | 25.4722 | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | 0.30274 | 26.4521 | 4.3973 | 26.4521 | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | 0.35054 | 21.6739 | 3.5978 | 21.6739 | . | . | . | . | . | . | . | . | . | . | . | . |
| 14 | 0.33333 | 24.2020 | 4.3434 | 24.2020 | . | . | . | . | . | . | . | . | . | . | . | . |
| 15 | 0.32176 | 19.5176 | 3.2000 | 19.5176 | 1 | 1.90 | 0.050 | 0.900 | 0.600 | 0.300 | 17.0 | 2.0 | 9.0 | 1 | 2.43333 | 0.23333 |
| 16 | 0.39118 | 17.9748 | 2.8824 | 17.9748 | . | . | . | . | . | . | . | . | . | . | . | . |
| 17 | 0.40964 | 17.7831 | 2.4337 | 17.7831 | . | . | . | . | . | . | . | . | . | . | . | . |
| 18 | 0.38571 | 14.9821 | 1.9018 | 14.9821 | . | . | . | . | . | . | . | . | . | . | . | . |

| OBS | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRNHT93 | CRNTP93 | STAT94 | DBH94 | HRT94 | SAP94 | RAD1094 | RAD0594 | STMLN94 | CRNHT94 | CRNTP94 | STAT95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | 0.95 | 0.25000 | 0.10 | 40.0000 | 17 | 40 | 1 | 6.3 | 2.15 | 0.65 | 0.2 | 0.1 | 42 | 20 | 38 | 1 |
| 4 | 0.55 | 0.20000 | 0.10 | 42.0000 | 21 | 42 | . | . | . | . | . | . | . | . | . | . |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 1 |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 1 |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 14 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 15 | 0.85 | 0.51667 | 0.25 | 16.6667 | 3 | 9 | 1 | . | . | . | . | . | . | . | . | . |
| 16 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 17 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 18 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

| OBS | DBH95 | HRT95 | SAP95 | RAD0595 | RAD1095 | STMLN95 | CRNHT95 | CRNTP95 | STAT97 | DBH97 | SAP97 | HRT97 | RAD0597 | RAD1097 | STMLN97 | CRNTP97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | 6.2 | 1.55 | 1.40 | 0.10 | 0.2 | 31.3 | 31.3 | 23.0 | 1 | 6.66667 | 1.03333 | 1.55 | 0.063333 | 0.11833 | 42 | 25 |
| 4 | . | . | . | . | . | . | . | . | 1 | 7.30000 | 1.15000 | 1.85 | 0.040000 | 0.09000 | 40 | 25 |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | 7.0 | 1.25 | 1.90 | 0.05 | 0.1 | 37.3 | 37.3 | 23.7 | . | . | . | . | . | . | . | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | 3.5 | 0.50 | 1.05 | 0.20 | 0.4 | 19.0 | 14.0 | 3.0 | . | . | . | . | . | . | . | . |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 14 | . | . | . | . | . | . | . | . | 1 | 3.60000 | 0.65000 | 1.00 | 0.075000 | 0.21500 | 26 | 15 |
| 15 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 16 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 17 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 18 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

| OBS | CRNHT97 | SAP_BA91 | SAP_BA92 | SAP_BA93 | SAP_BA94 | SAP_BA95 | SAP_BA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_92 | N_93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | . | 0.17526 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 2 | . | 0.13448 | 0.11254 | . | . | . | . | . | -0.0568 | . | . | . | 2 | 0 |
| 3 | 22.3333 | 0.11874 | 0.08835 | 0.080283 | 0.058194 | 0.10663 | 0.14357 | -24.0150 | -30.9568 | -49.9531 | -8.3021 | -2.7211 | 1 | 1 |
| 4 | 20.0000 | 0.14117 | 0.21132 | 0.070193 | . | . | 0.15577 | 17.4209 | -67.2269 | . | . | -8.9286 | 2 | 1 |
| 5 | . | 0.10338 | 0.10014 | . | . | . | . | -26.8817 | . | . | . | . | 1 | 0 |
| 6 | . | 0.08170 | 0.03297 | . | . | 0.14939 | . | -55.6545 | . | . | 28.0505 | . | 2 | 0 |
| 7 | . | 0.10283 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 8 | . | 0.08295 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 9 | . | 0.10529 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 10 | . | 0.11442 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 11 | . | 0.09081 | . | . | . | 0.03142 | . | . | . | . | -10.0000 | . | 0 | 0 |
| 12 | . | 0.10729 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 13 | . | 0.07452 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 14 | 13.0000 | 0.05951 | . | . | . | . | 0.04500 | . | . | . | . | -23.6818 | 0 | 0 |
| 15 | . | 0.05553 | 0.01571 | 0.018125 | . | . | . | 2.8571 | -3.2764 | . | . | . | 1 | 3 |
| 16 | . | 0.04710 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 17 | . | 0.05339 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 18 | . | 0.03790 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |

| OBS | N_94 | N_95 | N_97 | TREAT | T_TREES | HEC | ACRE | QMD90 | QMD91 | QMD92 | QMD93 | QMD94 | QMD95 | QMD97 | T_DEN | T_BA90 | T_BA91 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 52 | 0.060703 | 0.15 | 7.19466 | 7.19466 | . | . | . | . | . | 346.667 | 97.869 | 97.869 |
| 2 | 0 | 0 | 0 | 3 | 55 | 0.060703 | 0.15 | 7.11771 | 7.11771 | 7.14493 | . | . | . | . | 366.667 | 101.314 | 101.314 |
| 3 | 1 | 1 | 3 | 4 | 62 | 0.040469 | 0.10 | 6.22369 | 6.22369 | 6.30000 | 6.20000 | 6.3 | 6.2 | 6.67932 | 620.000 | 130.979 | 130.979 |
| 4 | 0 | 0 | 0 | 5 | 90 | 0.060703 | 0.15 | 6.93778 | 6.93778 | 8.77411 | 9.00000 | . | . | 7.30000 | 600.000 | 157.510 | 157.510 |
| 5 | 0 | 0 | 0 | 3 | 88 | 0.060703 | 0.15 | 5.80980 | 5.80980 | 6.00000 | . | . | . | . | 586.667 | 108.001 | 108.001 |
| 6 | 0 | 1 | 0 | 5 | 123 | 0.060703 | 0.15 | 5.59514 | 5.59514 | 5.80000 | . | . | 7.0 | . | 820.000 | 140.007 | 140.007 |
| 7 | 0 | 0 | 0 | 1 | 73 | 0.060703 | 0.15 | 6.49797 | 6.49797 | . | . | . | . | . | 486.667 | 112.073 | 112.073 |
| 8 | 0 | 0 | 0 | 4 | 77 | 0.040469 | 0.10 | 5.34108 | 5.34108 | . | . | . | . | . | 770.000 | 119.802 | 119.802 |
| 9 | 0 | 0 | 0 | 2 | 61 | 0.060703 | 0.15 | 5.22549 | 5.22549 | . | . | . | . | . | 406.667 | 60.563 | 60.563 |
| 10 | 0 | 0 | 0 | 5 | 104 | 0.060703 | 0.15 | 5.32374 | 5.32374 | . | . | . | . | . | 693.333 | 107.174 | 107.174 |
| 11 | 0 | 1 | 0 | 3 | 72 | 0.060703 | 0.15 | 4.80512 | 4.80512 | . | . | . | 3.5 | . | 480.000 | 60.446 | 60.446 |
| 12 | 0 | 0 | 0 | 4 | 73 | 0.060703 | 0.15 | 5.10994 | 5.10994 | . | . | . | . | . | 486.667 | 69.307 | 69.307 |
| 13 | 0 | 0 | 0 | 1 | 92 | 0.060703 | 0.15 | 4.19144 | 4.19144 | . | . | . | . | . | 613.333 | 58.768 | 58.768 |
| 14 | 0 | 0 | 1 | 5 | 99 | 0.060703 | 0.15 | 3.97934 | 3.97934 | . | . | . | . | 3.60000 | 660.000 | 57.001 | 57.001 |
| 15 | 0 | 0 | 0 | 3 | 85 | 0.060703 | 0.15 | 3.48369 | 3.48369 | 1.90000 | 2.49600 | . | . | . | 566.667 | 37.508 | 37.508 |
| 16 | 0 | 0 | 0 | 4 | 119 | 0.060703 | 0.15 | 3.32332 | 3.32332 | . | . | . | . | . | 793.333 | 47.788 | 47.788 |
| 17 | 0 | 0 | 0 | 2 | 83 | 0.060703 | 0.15 | 3.56523 | 3.56523 | . | . | . | . | . | 553.333 | 38.360 | 38.360 |
| 18 | 0 | 0 | 0 | 1 | 112 | 0.060703 | 0.15 | 2.98345 | 2.98345 | . | . | . | . | . | 746.667 | 36.248 | 36.248 |

| OBS | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 | T_SPBA94 | T_SPBA95 | T_SPBA97 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | . | . | . | . | . | 60.7565 | . | . | . | . | . |
| 2 | 102.090 | . | . | . | . | 49.3107 | 41.266 | . | . | . | . |
| 3 | 134.211 | 129.984 | 134.211 | 129.984 | 150.859 | 73.6165 | 54.780 | 49.7754 | 36.0804 | 66.108 | 89.0118 |
| 4 | 251.926 | 265.064 | . | . | 174.386 | 84.6999 | 126.789 | 42.1158 | . | . | 93.4597 |
| 5 | 115.188 | . | . | . | . | 60.6525 | 58.746 | . | . | . | . |
| 6 | 150.447 | . | . | 219.142 | . | 66.9940 | 27.035 | . | . | 122.496 | . |
| 7 | . | . | . | . | . | 50.0434 | . | . | . | . | . |
| 8 | . | . | . | . | . | 63.8745 | . | . | . | . | . |
| 9 | . | . | . | . | . | 42.8183 | . | . | . | . | . |
| 10 | . | . | . | . | . | 79.3310 | . | . | . | . | . |
| 11 | . | . | . | 32.070 | . | 43.5895 | . | . | . | 15.079 | . |
| 12 | . | . | . | . | . | 52.2159 | . | . | . | . | . |
| 13 | . | . | . | . | . | 45.7071 | . | . | . | . | . |
| 14 | . | . | . | . | 46.651 | 39.2793 | . | . | . | . | 29.6970 |
| 15 | 11.157 | 19.254 | . | . | . | 31.4692 | 8.901 | 10.2711 | . | . | . |
| 16 | . | . | . | . | . | 37.3654 | . | . | . | . | . |
| 17 | . | . | . | . | . | 29.5400 | . | . | . | . | . |
| 18 | . | . | . | . | . | 28.2950 | . | . | . | . | . |

```
title ' status =2';
options ls=132 ps=55;
data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
input block plot tag east north crown dbh90 rank grd_tree girdle;
 if grd_tree<2 ;
grd_tree=grd_tree*100;
proc sort; by block plot tag;
data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
input block plot tag        DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
CRNTP91=STMLN91; drop CRNWD91;
proc sort; by block plot tag;
data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
if stat92=2;
proc sort; by block plot tag;
data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
if stat93=2;
drop stat92x;
proc sort; by block plot tag;
data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
if stat94=2;
drop stat93x;
proc sort; by block plot tag;
data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
if stat95=2;
proc sort; by block plot tag;
data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
if stat97=2;
proc sort; by block plot tag;

data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
if tag;
ba90 = (dbh90**2)* .005454;
ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;

woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;

csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
```

```
proc means noprint nway; var grd_tree ba90--ba97 dbh91--crnht97
 sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
 output out=mean mean=
  n(dbh92 dbh93 dbh94 dbh95 dbh97)=n_92-n_95 n_97; by block plot;

data mean; set mean;
if block=1 and plot=1 then treat=1;
if block=1 and plot=2 then treat=3;
if block=1 and plot=3 then treat=4;
if block=1 and plot=4 then treat=5;
if block=2 and plot=1 then treat=3;
if block=2 and plot=2 then treat=5;
if block=2 and plot=3 then treat=1;
if block=2 and plot=4 then treat=4;
if block=3 and plot=1 then treat=2;
if block=3 and plot=2 then treat=5;
if block=3 and plot=3 then treat=3;
if block=3 and plot=4 then treat=4;
if block=3 and plot=5 then treat=1;
if block=4 and plot=1 then treat=5;
if block=4 and plot=2 then treat=3;
if block=4 and plot=3 then treat=4;
if block=4 and plot=4 then treat=2;
if block=4 and plot=5 then treat=1;
t_trees = _freq_;
hec= .15 * .404686;
acre=.15;
if block=2 and plot=4 then hec= .10 * .404686;
if block=1 and plot=3 then hec= .10 * .404686;
if block=2 and plot=4 then acre=.10;
if block=1 and plot=3 then acre=.10;

qmd90=sqrt(ba90/.005454);
qmd91=sqrt(ba91/.005454);
qmd92=sqrt(ba92/.005454);
qmd93=sqrt(ba93/.005454);
qmd94=sqrt(ba94/.005454);
qmd95=sqrt(ba95/.005454);
qmd97=sqrt(ba97/.005454);

t_den= t_trees/acre;

t_ba90=t_trees*ba90/acre;
t_ba91=t_trees*ba91/acre;
t_ba92=t_trees*ba92/acre;
t_ba93=t_trees*ba93/acre;
t_ba94=t_trees*ba94/acre;
t_ba95=t_trees*ba95/acre;
t_ba97=t_trees*ba97/acre;

t_spba91=t_trees*sap_ba91/acre;
t_spba92=t_trees*sap_ba92/acre;
t_spba93=t_trees*sap_ba93/acre;
t_spba94=t_trees*sap_ba94/acre;
t_spba95=t_trees*sap_ba95/acre;
t_spba97=t_trees*sap_ba97/acre;
```

1                                                    The SAS System                                    07:33 Monday, October 26, 1998

NOTE: Copyright (c) 1989-1996 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software Release 6.12  TS045
      Licensed to COLORADO STATE UNIVERSITY, ACNS, Site 0009521005.

NOTE: Running on IBM Model RS/6000 Serial Number 000003608000.


      Welcome to SAS 6.12 TS-045!!  Installed February 1998.

      This release includes BASE SAS, AF, ASSIST, ETS, FSP, GRAPH,
      IML, INSIGHT, OR, QC, STAT and TUTOR options.

      The SAS software is for University use only, and may not be used
      for any commerical purposes.



NOTE: AUTOEXEC processing beginning; file is /usr/local/sas612/autoexec.sas.

NOTE: SAS initialization used:
      real time           0.20 seconds
      cpu time            0.11 seconds

NOTE: DM statements are only valid in DMS mode.
NOTE: DM statements are only valid in DMS mode.

NOTE: AUTOEXEC processing completed.

1             title ' status =2';
2             options ls=132 ps=55;
3             data t90; infile '90.dat' firstobs=2 delimiter=',' missover;
4             input block plot tag east north crown dbh90 rank grd_tree girdle;
5              if grd_tree<2 ;
6             grd_tree=grd_tree*100;

NOTE: The infile '90.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/90.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=46889

NOTE: 1841 records were read from the infile '90.dat'.
      The minimum record length was 20.
      The maximum record length was 27.
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: DATA statement used:
      real time           0.36 seconds
      cpu time            0.15 seconds


7             proc sort; by block plot tag;

```
NOTE: The data set WORK.T90 has 1520 observations and 10 variables.
NOTE: PROCEDURE SORT used:
      real time           0.23 seconds
      cpu time            0.06 seconds


8         data t91; infile '91.dat' firstobs=2 delimiter=',' missover;
9         input block plot tag       DBH91 HRT91 SAP91 RAD1091 RAD0591 STMLN91 CRNHT91 CRNWD91;
10        CRNTP91=STMLN91; drop CRNWD91;

NOTE: The infile '91.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/91.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=67349

NOTE: 1520 records were read from the infile '91.dat'.
      The minimum record length was 41.
      The maximum record length was 45.
NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: DATA statement used:
      real time           0.33 seconds
      cpu time            0.17 seconds


11        proc sort; by block plot tag;

NOTE: The data set WORK.T91 has 1520 observations and 11 variables.
NOTE: PROCEDURE SORT used:
      real time           0.22 seconds
      cpu time            0.06 seconds


12        data t92; infile '92.dat' firstobs=2 delimiter=',' missover;
13        input block plot tag STAT92 DBH92 HRT92 SAP92 RAD1092 RAD0592 STMLN92 CRNHT92 CRNTP92;
14        if stat92=2;

NOTE: The infile '92.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/92.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=18595

NOTE: 341 records were read from the infile '92.dat'.
      The minimum record length was 51.
      The maximum record length was 54.
NOTE: The data set WORK.T92 has 31 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.16 seconds
      cpu time            0.07 seconds
```

```
15        proc sort; by block plot tag;
```

NOTE: The data set WORK.T92 has 31 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.11 seconds
      cpu time             0.02 seconds


```
16        data t93; infile '93.dat' firstobs=2 delimiter=',' missover;
17        input block plot tag stat92x STAT93 DBH93 HRT93 SAP93 RAD1093 RAD0593 STMLN93 CRNHT93 CRNTP93;
18        sap93=sap93/20; rad1093=rad1093/20;rad0593=rad0593/20; hrt93=hrt93/20;
19        if stat93=2;
20        drop stat92x;
```

NOTE: The infile '93.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/93.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=12522

NOTE: 325 records were read from the infile '93.dat'.
      The minimum record length was 34.
      The maximum record length was 40.
NOTE: The data set WORK.T93 has 24 observations and 12 variables.
NOTE: DATA statement used:
      real time            0.16 seconds
      cpu time             0.07 seconds


```
21        proc sort; by block plot tag;
```

NOTE: The data set WORK.T93 has 24 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time            0.11 seconds
      cpu time             0.03 seconds


```
22        data t94; infile '94.dat' firstobs=2 delimiter=',' missover;
23        input block plot tag stat93x STAT94 DBH94 HRT94 SAP94 RAD1094 RAD0594 STMLN94 CRNHT94 CRNTP94;
24        sap94=sap94/20; rad1094=rad1094/20;rad0594=rad0594/20; hrt94=hrt94/20;
25        if stat94=2;
26        drop stat93x;
```

NOTE: The infile '94.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/94.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=10653

NOTE: 305 records were read from the infile '94.dat'.
      The minimum record length was 29.
      The maximum record length was 38.
NOTE: Missing values were generated as a result of performing an operation on missing values.

```
          Each place is given by: (Number of times) at (Line):(Column).
          3 at 24:12    3 at 24:32    3 at 24:51    3 at 24:67
NOTE: The data set WORK.T94 has 8 observations and 12 variables.
NOTE: DATA statement used:
      real time             0.15 seconds
      cpu time              0.05 seconds


27          proc sort; by block plot tag;

NOTE: The data set WORK.T94 has 8 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time             0.11 seconds
      cpu time              0.02 seconds


28          data t95; infile '95.dat' firstobs=2 delimiter=',' missover;
29          input block plot tag STAT95 DBH95 HRT95 SAP95 RAD0595 RAD1095 STMLN95 CRNHT95 CRNTP95;
30          sap95=sap95/20; rad1095=rad1095/20;rad0595=rad0595/20; hrt95=hrt95/20;
31          if stat95=2;

NOTE: The infile '95.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/95.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
      File Size (bytes)=7470

NOTE: 196 records were read from the infile '95.dat'.
      The minimum record length was 31.
      The maximum record length was 42.
NOTE: The data set WORK.T95 has 3 observations and 12 variables.
NOTE: DATA statement used:
      real time             0.15 seconds
      cpu time              0.03 seconds


32          proc sort; by block plot tag;

NOTE: The data set WORK.T95 has 3 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time             0.10 seconds
      cpu time              0.02 seconds


33          data t97; infile '97.dat' firstobs=2 delimiter=',' missover;
34          input block plot tag STAT97 DBH97 SAP97 HRT97 RAD0597 RAD1097 STMLN97 CRNTP97 CRNHT97;
35          sap97=sap97/20; rad1097=rad1097/20;rad0597=rad0597/20; hrt97=hrt97/20;
36          if stat97=2;

NOTE: The infile '97.dat' is:
      File Name=/a/zumbrunn/jobs/jacobi/opt/97.dat,
      Owner Name=zumbrunn,Group Name=ACD0003,
      Access Permission=rw-------,
```

```
        File Size (bytes)=11868

NOTE: 304 records were read from the infile '97.dat'.
      The minimum record length was 30.
      The maximum record length was 39.
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      8 at 35:12    11 at 35:32    10 at 35:51    8 at 35:67
NOTE: The data set WORK.T97 has 8 observations and 12 variables.
NOTE: DATA statement used:
      real time           0.14 seconds
      cpu time            0.06 seconds


37          proc sort; by block plot tag;
38


NOTE: The data set WORK.T97 has 8 observations and 12 variables.
NOTE: PROCEDURE SORT used:
      real time           0.11 seconds
      cpu time            0.01 seconds


39          data all; merge t90 t91 t92 t93 t94 t95 t97; by block plot tag;
40          if tag;
41          ba90 = (dbh90**2)* .005454;
42          ba91 = (dbh91**2)* .005454; ba92 = (dbh92**2)* .005454;
43          ba93 = (dbh93**2)* .005454; ba94 = (dbh94**2)* .005454;
44          ba95 = (dbh95**2)* .005454; ba97 = (dbh97**2)* .005454;
45
46          woda91=((hrt91+sap91)*2)**2 * .005454;hwa91=(2*hrt91)**2 * .005454; sap_ba91=woda91-hwa91;
47          woda92=((hrt91+sap91)*2)**2 * .005454;hwa92=(2*hrt92)**2 * .005454; sap_ba92=woda92-hwa92;
48          woda93=((hrt91+sap91)*2)**2 * .005454;hwa93=(2*hrt93)**2 * .005454; sap_ba93=woda93-hwa93;
49          woda94=((hrt91+sap91)*2)**2 * .005454;hwa94=(2*hrt94)**2 * .005454; sap_ba94=woda94-hwa94;
50          woda95=((hrt91+sap91)*2)**2 * .005454;hwa95=(2*hrt95)**2 * .005454; sap_ba95=woda95-hwa95;
51          woda97=((hrt91+sap91)*2)**2 * .005454;hwa97=(2*hrt97)**2 * .005454; sap_ba97=woda97-hwa97;
52
53          csapba92=(sap_ba92-sap_ba91)/sap_ba91*100;
54          csapba93=(sap_ba93-sap_ba91)/sap_ba91*100;
55          csapba94=(sap_ba94-sap_ba91)/sap_ba91*100;
56          csapba95=(sap_ba95-sap_ba91)/sap_ba91*100;
57          csapba97=(sap_ba97-sap_ba91)/sap_ba91*100;
58

NOTE: Division by zero detected at line 53 column 29.
BLOCK=2 PLOT=2 TAG=533 EAST=36 NORTH=8 CROWN=2 DBH90=5.6 RANK=3 GRD_TREE=100 GIRDLE=22 DBH91=5.6 HRT91=2.4 SAP91=0 RAD1091=0.15
RAD0591=0.05 STMLN91=37 CRNHT91=23 CRNTP91=37 STAT92=2 DBH92=5.3 HRT92=1.5 SAP92=0.9 RAD1092=0.05 RAD0592=0 STMLN92=37 CRNHT92=25
CRNTP92=37 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.15320286 BA93=. BA94=. BA95=. BA97=. WODA91=0.12566016
HWA91=0.12566016 SAP_BA91=0 WODA92=0.12566016 HWA92=0.049086 SAP_BA92=0.07657416 WODA93=0.12566016 HWA93=. SAP_BA93=.
WODA94=0.12566016 HWA94=. SAP_BA94=. WODA95=0.12566016 HWA95=. SAP_BA95=. WODA97=0.12566016 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
```

CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=399
NOTE: Division by zero detected at line 53 column 29.
BLOCK=2 PLOT=2 TAG=587 EAST=76 NORTH=49 CROWN=3 DBH90=4.1 RANK=3 GRD_TREE=100 GIRDLE=15 DBH91=4.1 HRT91=2 SAP91=0 RAD1091=0.2
RAD0591=0.1 STMLN91=29 CRNHT91=13 CRNTP91=29 STAT92=2 DBH92=4.9 HRT92=0.95 SAP92=1.25 RAD1092=0.25 RAD0592=0.1 STMLN92=28 CRNHT92=15
CRNTP92=28 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. .RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.09168174 BA91=0.09168174 BA92=0.13095054 BA93=. BA94=. BA95=. BA97=. WODA91=0.087264
HWA91=0.087264 SAP_BA91=0 WODA92=0.087264 HWA92=0.01968894 SAP_BA92=0.06757506 WODA93=0.087264 HWA93=. SAP_BA93=. WODA94=0.087264
HWA94=. SAP_BA94=. WODA95=0.087264 HWA95=. SAP_BA95=. WODA97=0.087264 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=. CSAPBA94=. CSAPBA95=.
CSAPBA97=. _ERROR_=1 _N_=443
NOTE: Division by zero detected at line 53 column 29.
BLOCK=2 PLOT=2 TAG=601 EAST=70 NORTH=24 CROWN=2 DBH90=5.6 RANK=4 GRD_TREE=100 GIRDLE=21 DBH91=5.6 HRT91=2.3 SAP91=0 RAD1091=0.1
RAD0591=0.05 STMLN91=36 CRNHT91=15 CRNTP91=36 STAT92=2 DBH92=4.4 HRT92=1.25 SAP92=1.05 RAD1092=0.15 RAD0592=0.05 STMLN92=36
CRNHT92=15 CRNTP92=36 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=.
SAP94=. RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=.
CRNTP95=. STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.17103744 BA91=0.17103744 BA92=0.10558944 BA93=. BA94=. BA95=. BA97=. WODA91=0.11540664
HWA91=0.11540664 SAP_BA91=0 WODA92=0.11540664 HWA92=0.0340875 SAP_BA92=0.08131914 WODA93=0.11540664 HWA93=. SAP_BA93=.
WODA94=0.11540664 HWA94=. SAP_BA94=. WODA95=0.11540664 HWA95=. SAP_BA95=. WODA97=0.11540664 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. _ERROR_=1 _N_=454
NOTE: Division by zero detected at line 53 column 29.
BLOCK=2 PLOT=2 TAG=602 EAST=67 NORTH=22 CROWN=2 DBH90=6.5 RANK=1 GRD_TREE=100 GIRDLE=25 DBH91=6.5 HRT91=2.9 SAP91=0 RAD1091=0.25
RAD0591=0.1 STMLN91=40 CRNHT91=21 CRNTP91=40 STAT92=2 DBH92=6.3 HRT92=1.75 SAP92=0.9 RAD1092=0.15 RAD0592=0.05 STMLN92=40 CRNHT92=23
CRNTP92=40 STAT93=. DBH93=. HRT93=. SAP93=. RAD1093=. RAD0593=. STMLN93=. CRNHT93=. CRNTP93=. STAT94=. DBH94=. HRT94=. SAP94=.
RAD1094=. RAD0594=. STMLN94=. CRNHT94=. CRNTP94=. STAT95=. DBH95=. HRT95=. SAP95=. RAD0595=. RAD1095=. STMLN95=. CRNHT95=. CRNTP95=.
STAT97=. DBH97=. SAP97=. HRT97=. RAD0597=. RAD1097=. STMLN97=. CRNTP97=. CRNHT97=. FIRST.BLOCK=0 LAST.BLOCK=0 FIRST.PLOT=0
LAST.PLOT=0 FIRST.TAG=1 LAST.TAG=1 BA90=0.2304315 BA91=0.2304315 BA92=0.21646926 BA93=. BA94=. BA95=. BA97=. WODA91=0.18347256
HWA91=0.18347256 SAP_BA91=0 WODA92=0.18347256 HWA92=0.0668115 SAP_BA92=0.11666106 WODA93=0.18347256 HWA93=. SAP_BA93=.
WODA94=0.18347256 HWA94=. SAP_BA94=. WODA95=0.18347256 HWA95=. SAP_BA95=. WODA97=0.18347256 HWA97=. SAP_BA97=. CSAPBA92=. CSAPBA93=.
CSAPBA94=. CSAPBA95=. CSAPBA97=. _ERROR_=1 _N_=455
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1489 at 42:42    1489 at 42:46    1496 at 43:14    1496 at 43:18    1512 at 43:42    1512 at 43:46    1517 at 44:14
      1517 at 44:18    1512 at 44:42    1512 at 44:46    1489 at 47:47    1489 at 47:54    1489 at 47:58    1489 at 47:84
      1496 at 48:47    1496 at 48:54    1496 at 48:58    1496 at 48:84    1512 at 49:47    1512 at 49:54    1512 at 49:58
      1512 at 49:84    1517 at 50:47    1517 at 50:54    1517 at 50:58    1517 at 50:84    1520 at 51:47    1520 at 51:54
      1520 at 51:58    1520 at 51:84    1489 at 53:19    1489 at 53:29    1493 at 53:38    1496 at 54:19    1496 at 54:29
      1496 at 54:38    1512 at 55:19    1512 at 55:29    1512 at 55:38    1517 at 56:19    1517 at 56:29    1517 at 56:38
      1520 at 57:19    1520 at 57:29    1520 at 57:38
NOTE: Mathematical operations could not be performed at the following places. The results of the operations have been set to
      missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      4 at 53:29
NOTE: The data set WORK.ALL has 1520 observations and 93 variables.
NOTE: DATA statement used:
      real time              1.92 seconds
      cpu time               1.04 seconds


59        proc means noprint nway; var grd_tree ba90--ba97 dbh91--crnht97
60        sap_ba91 sap_ba92 sap_ba93 sap_ba94 sap_ba95 sap_ba97 csapba92--csapba97;
61        output out=mean mean=

```
62              n(dbh92 dbh93 dbh94 dbh95 dbh97)=n_92-n_95 n_97; by block plot;
63
```

NOTE: The data set WORK.MEAN has 18 observations and 81 variables.
NOTE: PROCEDURE MEANS used:
      real time           0.22 seconds
      cpu time            0.10 seconds

```
64              data mean; set mean;
65              if block=1 and plot=1 then treat=1;
66              if block=1 and plot=2 then treat=3;
67              if block=1 and plot=3 then treat=4;
68              if block=1 and plot=4 then treat=5;
69              if block=2 and plot=1 then treat=3;
70              if block=2 and plot=2 then treat=5;
71              if block=2 and plot=3 then treat=1;
72              if block=2 and plot=4 then treat=4;
73              if block=3 and plot=1 then treat=2;
74              if block=3 and plot=2 then treat=5;
75              if block=3 and plot=3 then treat=3;
76              if block=3 and plot=4 then treat=4;
77              if block=3 and plot=5 then treat=1;
78              if block=4 and plot=1 then treat=5;
79              if block=4 and plot=2 then treat=3;
80              if block=4 and plot=3 then treat=4;
81              if block=4 and plot=4 then treat=2;
82              if block=4 and plot=5 then treat=1;
83              t_trees = _freq_;
84              hec= .15 * .404686;
85              acre=.15;
86              if block=2 and plot=4 then hec= .10 * .404686;
87              if block=1 and plot=3 then hec= .10 * .404686;
88              if block=2 and plot=4 then acre=.10;
89              if block=1 and plot=3 then acre=.10;
90
91              qmd90=sqrt(ba90/.005454);
92              qmd91=sqrt(ba91/.005454);
93              qmd92=sqrt(ba92/.005454);
94              qmd93=sqrt(ba93/.005454);
95              qmd94=sqrt(ba94/.005454);
96              qmd95=sqrt(ba95/.005454);
97              qmd97=sqrt(ba97/.005454);
98
99              t_den= t_trees/acre;
100
101             t_ba90=t_trees*ba90/acre;
102             t_ba91=t_trees*ba91/acre;
103             t_ba92=t_trees*ba92/acre;
104             t_ba93=t_trees*ba93/acre;
105             t_ba94=t_trees*ba94/acre;
106             t_ba95=t_trees*ba95/acre;
107             t_ba97=t_trees*ba97/acre;
```

```
108
109         t_spba91=t_trees*sap_ba91/acre;
110         t_spba92=t_trees*sap_ba92/acre;
111         t_spba93=t_trees*sap_ba93/acre;
112         t_spba94=t_trees*sap_ba94/acre;
113         t_spba95=t_trees*sap_ba95/acre;
114         t_spba97=t_trees*sap_ba97/acre;
115
```

```
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      12 at 93:7     12 at 93:16    13 at 94:7     13 at 94:16    15 at 95:7     15 at 95:16    15 at 96:7     15 at 96:16
      14 at 97:7     14 at 97:16    12 at 103:15   12 at 103:20   13 at 104:15   13 at 104:20   15 at 105:15   15 at 105:20
      15 at 106:15   15 at 106:20   14 at 107:15   14 at 107:20   12 at 110:17   12 at 110:26   13 at 111:17   13 at 111:26
      15 at 112:17   15 at 112:26   15 at 113:17   15 at 113:26   18 at 114:17   18 at 114:26
NOTE: The data set WORK.MEAN has 18 observations and 106 variables.
NOTE: DATA statement used:
      real time           0.26 seconds
      cpu time            0.09 seconds
```

```
116         proc print;
NOTE: The PROCEDURE PRINT printed pages 1-4.
NOTE: PROCEDURE PRINT used:
      real time           0.09 seconds
      cpu time            0.06 seconds
```

```
NOTE: The SAS System used:
      real time           5.22 seconds
      cpu time            2.26 seconds
```

```
NOTE: SAS Institute Inc., SAS Campus Drive, Cary, NC USA 27513-2414
```

| OBS | BLOCK | PLOT | _TYPE_ | _FREQ_ | GRD_TREE | BA90 | BA91 | BA92 | BA93 | BA94 | BA95 | BA97 | DBH91 | HRT91 | SAP91 | RAD1091 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 0 | 52 | 0.0000 | 0.28232 | 0.28232 | 0.25966 | . | . | . | . | 7.13462 | 1.77596 | 1.57212 | 0.25962 |
| 2 | 1 | 2 | 0 | 55 | 40.0000 | 0.27631 | 0.27631 | 0.20316 | 0.32908 | 0.18666 | . | . | 7.08364 | 1.61909 | 1.32909 | 0.26273 |
| 3 | 1 | 3 | 0 | 62 | 11.2903 | 0.21126 | 0.21126 | . | . | . | 0.23043 | . | 6.13387 | 1.41129 | 1.28468 | 0.22016 |
| 4 | 1 | 4 | 0 | 90 | 40.0000 | 0.26252 | 0.26252 | 0.18298 | 0.30218 | 0.33122 | 0.22340 | 0.27179 | 6.85444 | 1.54778 | 1.41556 | 0.25333 |
| 5 | 2 | 1 | 0 | 88 | 40.9091 | 0.18409 | 0.18409 | 0.13616 | 0.12734 | . | . | . | 5.66023 | 1.53409 | 1.08125 | 0.24432 |
| 6 | 2 | 2 | 0 | 123 | 39.8374 | 0.17074 | 0.17074 | 0.12444 | 0.14288 | 0.18294 | 0.18347 | 0.22299 | 5.47724 | 1.48984 | 0.92439 | 0.17154 |
| 7 | 2 | 3 | 0 | 73 | 0.0000 | 0.23029 | 0.23029 | . | . | . | . | . | 6.42740 | 1.58562 | 1.09110 | 0.20959 |
| 8 | 2 | 4 | 0 | 77 | 6.4935 | 0.15559 | 0.15559 | . | 0.32337 | . | . | 0.20294 | 5.26883 | 1.28052 | 1.03182 | 0.21753 |
| 9 | 3 | 1 | 0 | 61 | 13.1148 | 0.14893 | 0.14893 | . | . | . | . | . | 4.84426 | 0.55000 | 1.57213 | 0.61230 |
| 10 | 3 | 2 | 0 | 104 | 32.6923 | 0.15458 | 0.15458 | . | . | . | . | . | 4.87981 | 0.70529 | 1.55288 | 0.63510 |
| 11 | 3 | 3 | 0 | 72 | 31.9444 | 0.12593 | 0.12593 | . | . | . | . | . | 4.53056 | 0.59653 | 1.44375 | 0.62361 |
| 12 | 3 | 4 | 0 | 73 | 15.0685 | 0.14241 | 0.14241 | . | . | . | . | . | 4.75890 | 0.60205 | 1.57123 | 0.61233 |
| 13 | 3 | 5 | 0 | 92 | 0.0000 | 0.09582 | 0.09582 | . | . | . | . | . | 3.86848 | 0.43478 | 1.33533 | 0.69130 |
| 14 | 4 | 1 | 0 | 99 | 40.4040 | 0.08636 | 0.08636 | 0.12048 | . | . | . | 0.12048 | 3.83838 | 0.42677 | 1.22778 | 0.69293 |
| 15 | 4 | 2 | 0 | 85 | 38.8235 | 0.06619 | 0.06619 | . | . | . | . | . | 3.30706 | 0.37412 | 1.18412 | 0.70824 |
| 16 | 4 | 3 | 0 | 119 | 15.1261 | 0.06024 | 0.06024 | . | . | . | . | . | 3.21933 | 0.24454 | 1.20210 | 0.82647 |
| 17 | 4 | 4 | 0 | 83 | 14.4578 | 0.06932 | 0.06932 | . | . | . | . | . | 3.47229 | 0.28675 | 1.26687 | 0.85602 |
| 18 | 4 | 5 | 0 | 112 | 0.0000 | 0.04855 | 0.04855 | . | . | . | . | . | 2.81161 | 0.19955 | 1.05313 | 0.80804 |

| OBS | RAD0591 | STMLN91 | CRNHT91 | CRNTP91 | STAT92 | DBH92 | HRT92 | SAP92 | RAD1092 | RAD0592 | STMLN92 | CRNHT92 | CRNTP92 | STAT93 | DBH93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.13077 | 40.4038 | 14.4808 | 40.4038 | 2 | 6.90000 | 2.05000 | 1.60000 | 0.25000 | 0.10000 | 41.0000 | 27.0000 | 41.0000 | . | . |
| 2 | 0.12455 | 39.3455 | 15.3455 | 39.3455 | 2 | 6.10000 | 1.65000 | 1.27500 | 0.20000 | 0.10000 | 43.0000 | 27.5000 | 43.0000 | 2 | 7.70 |
| 3 | 0.10806 | 37.2581 | 15.7903 | 37.2581 | . | . | . | . | . | . | . | . | . | 2 | 7.30 |
| 4 | 0.12278 | 41.2889 | 17.5778 | 41.2889 | 2 | 5.70000 | 1.65000 | 1.55833 | 0.20833 | 0.11667 | 40.3333 | 26.5000 | 40.3333 | 2 | 7.30 |
| 5 | 0.12330 | 34.1364 | 12.0455 | 34.1364 | 2 | 4.92857 | 1.40714 | 0.92857 | 0.15000 | 0.07857 | 33.5714 | 18.4286 | 33.5714 | 2 | 4.72 |
| 6 | 0.07927 | 35.1545 | 13.3008 | 35.1545 | 2 | 4.72143 | 1.31429 | 0.87500 | 0.13571 | 0.05714 | 33.7143 | 19.8571 | 33.7143 | 2 | 5.00 |
| 7 | 0.09863 | 37.0000 | 13.3151 | 37.0000 | . | . | . | . | . | . | . | . | . | . | . |
| 8 | 0.10065 | 33.7013 | 12.7662 | 33.7013 | . | . | . | . | . | . | . | . | . | 2 | 7.70 |
| 9 | 0.29754 | 25.6885 | 4.5574 | 25.6885 | . | . | . | . | . | . | . | . | . | . | . |
| 10 | 0.31346 | 26.6923 | 5.2115 | 26.6923 | . | . | . | . | . | . | . | . | . | . | . |
| 11 | 0.31667 | 25.4722 | 4.4306 | 25.4722 | . | . | . | . | . | . | . | . | . | . | . |
| 12 | 0.30274 | 26.4521 | 4.3973 | 26.4521 | . | . | . | . | . | . | . | . | . | . | . |
| 13 | 0.35054 | 21.6739 | 3.5978 | 21.6739 | . | . | . | . | . | . | . | . | . | . | . |
| 14 | 0.33333 | 24.2020 | 4.3434 | 24.2020 | 2 | 4.70000 | 1.00000 | 0.95000 | 0.70000 | 0.30000 | 27.0000 | 4.0000 | 27.0000 | . | . |
| 15 | 0.32176 | 19.5176 | 3.2000 | 19.5176 | . | . | . | . | . | . | . | . | . | . | . |
| 16 | 0.39118 | 17.9748 | 2.8824 | 17.9748 | . | . | . | . | . | . | . | . | . | . | . |
| 17 | 0.40964 | 17.7831 | 2.4337 | 17.7831 | . | . | . | . | . | . | . | . | . | . | . |
| 18 | 0.38571 | 14.9821 | 1.9018 | 14.9821 | . | . | . | . | . | . | . | . | . | . | . |

status =2                                    07:33 Monday, October 26, 1998   2

| OBS | HRT93 | SAP93 | RAD1093 | RAD0593 | STMLN93 | CRNHT93 | CRNTP93 | STAT94 | DBH94 | HRT94 | SAP94 | RAD1094 | RAD0594 | STMLN94 | CRNHT94 | CRNTP94 |
|-----|-------|-------|---------|---------|---------|---------|---------|--------|-------|-------|-------|---------|---------|---------|---------|---------|
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | 1.95000 | 1.33333 | 0.15000 | 0.06667 | 41.3333 | 20.6667 | 41.3333 | 2 | 5.850 | 1.725 | 1.050 | 0.18750 | 0.100 | 33.0000 | 18.5000 | 33.0000 |
| 3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 4 | 1.77500 | 1.46250 | 0.28750 | 0.12500 | 42.0000 | 22.7500 | 42.0000 | 2 | 7.700 | 1.825 | 1.675 | 0.27500 | 0.125 | 38.5000 | 21.5000 | 39.0000 |
| 5 | 1.18000 | 0.81000 | 0.13000 | 0.07000 | 31.0000 | 16.6000 | 31.0000 | . | . | . | . | . | . | . | . | . |
| 6 | 1.48636 | 0.80455 | 0.13182 | 0.06364 | 33.6364 | 14.9091 | 33.6364 | 2 | 5.725 | 1.375 | 1.400 | 0.21875 | 0.100 | 36.6667 | 16.3333 | 36.6667 |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | 2.15000 | 1.05000 | 0.20000 | 0.10000 | 40.0000 | 23.0000 | 40.0000 | . | . | . | . | . | . | . | . | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 14 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 15 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 16 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 17 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 18 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

| OBS | STAT95 | DBH95 | HRT95 | SAP95 | RAD0595 | RAD1095 | STMLN95 | CRNHT95 | CRNTP95 | STAT97 | DBH97 | SAP97 | HRT97 | RAD0597 | RAD1097 | STMLN97 | CRNTP97 |
|-----|--------|-------|-------|-------|---------|---------|---------|---------|---------|--------|-------|-------|-------|---------|---------|---------|---------|
| 1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 3 | 2 | 6.5 | 1.85 | 1.25 | 0.1 | 0.25 | 38 | . | . | . | . | . | . | . | . | . | . |
| 4 | 2 | 6.4 | 1.40 | 1.60 | 0.1 | 0.15 | 38 | . | . | 2 | 7.025 | . | . | 0.0550 | 0.12667 | 43.25 | . |
| 5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 6 | 2 | 5.8 | 1.55 | 1.45 | 0.2 | 0.30 | 47 | . | . | 2 | 6.350 | . | . | 0.0325 | 0.06500 | 39.00 | . |
| 7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 8 | . | . | . | . | . | . | . | . | . | 2 | 6.100 | . | . | 0.0650 | 0.17000 | 39.00 | . |
| 9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 14 | . | . | . | . | . | . | . | . | . | 2 | 4.700 | . | . | 0.1550 | 0.40500 | 26.00 | 21 |
| 15 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 16 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 17 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 18 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

| OBS | CRNHT97 | SAP_BA91 | SAP_BA92 | SAP_BA93 | SAP_BA94 | SAP_BA95 | SAP_BA97 | CSAPBA92 | CSAPBA93 | CSAPBA94 | CSAPBA95 | CSAPBA97 | N_92 | N_93 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | . | 0.17526 | 0.033978 | . | . | . | . | -67.2794 | . | . | . | . | 1 | 0 |
| 2 | . | 0.13448 | 0.046195 | 0.16057 | 0.10469 | . | . | -39.7059 | 6.4801 | 6.69311 | . | . | 2 | 3 |
| 3 | . | 0.11874 | . | . | . | 0.11519 | . | . | . | . | -27.2978 | . | 0 | 0 |
| 4 | . | 0.14117 | 0.090155 | 0.15054 | 0.16242 | 0.15358 | . | -17.9556 | -0.6439 | -4.52768 | 0.0000 | . | 6 | 4 |
| 5 | . | 0.10338 | 0.080579 | 0.08147 | . | . | . | 21.9728 | 26.4926 | . | . | . | 7 | 5 |
| 6 | . | 0.08170 | 0.072129 | 0.05452 | 0.10050 | 0.08394 | . | 12.0783 | -14.4236 | -2.26829 | -3.8125 | . | 14 | 11 |
| 7 | . | 0.10283 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 8 | . | 0.08295 | . | 0.16640 | . | . | . | . | 13.3779 | . | . | . | 0 | 1 |
| 9 | . | 0.10529 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 10 | . | 0.11442 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 11 | . | 0.09081 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 12 | . | 0.10729 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 13 | . | 0.07452 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 14 | 13 | 0.05951 | 0.079028 | . | . | . | . | 6.1538 | . | . | . | . | 1 | 0 |
| 15 | . | 0.05553 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 16 | . | 0.04710 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 17 | . | 0.05339 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |
| 18 | . | 0.03790 | . | . | . | . | . | . | . | . | . | . | 0 | 0 |

| OBS | N_94 | N_95 | N_97 | TREAT | T_TREES | HEC | ACRE | QMD90 | QMD91 | QMD92 | QMD93 | QMD94 | QMD95 | QMD97 | T_DEN | T_BA90 | T_BA91 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 52 | 0.060703 | 0.15 | 7.19466 | 7.19466 | 6.90000 | . | . | . | . | 346.667 | 97.869 | 97.869 |
| 2 | 2 | 0 | 0 | 3 | 55 | 0.060703 | 0.15 | 7.11771 | 7.11771 | 6.10328 | 7.76767 | 5.85021 | . | . | 366.667 | 101.314 | 101.314 |
| 3 | 0 | 1 | 0 | 4 | 62 | 0.040469 | 0.10 | 6.22369 | 6.22369 | . | . | . | 6.5 | . | 620.000 | 130.979 | 130.979 |
| 4 | 2 | 1 | 4 | 5 | 90 | 0.060703 | 0.15 | 6.93778 | 6.93778 | 5.79224 | 7.44345 | 7.79295 | 6.4 | 7.05921 | 600.000 | 157.510 | 157.510 |
| 5 | 0 | 0 | 0 | 3 | 88 | 0.060703 | 0.15 | 5.80980 | 5.80980 | 4.99643 | 4.83198 | . | . | . | 586.667 | 108.001 | 108.001 |
| 6 | 4 | 1 | 2 | 5 | 123 | 0.060703 | 0.15 | 5.59514 | 5.59514 | 4.77665 | 5.11842 | 5.79159 | 5.8 | 6.39414 | 820.000 | 140.007 | 140.007 |
| 7 | 0 | 0 | 0 | 1 | 73 | 0.060703 | 0.15 | 6.49797 | 6.49797 | . | . | . | . | . | 486.667 | 112.073 | 112.073 |
| 8 | 0 | 0 | 1 | 4 | 77 | 0.040469 | 0.10 | 5.34108 | 5.34108 | . | 7.70000 | . | . | 6.10000 | 770.000 | 119.802 | 119.802 |
| 9 | 0 | 0 | 0 | 2 | 61 | 0.060703 | 0.15 | 5.22549 | 5.22549 | . | . | . | . | . | 406.667 | 60.563 | 60.563 |
| 10 | 0 | 0 | 0 | 5 | 104 | 0.060703 | 0.15 | 5.32374 | 5.32374 | . | . | . | . | . | 693.333 | 107.174 | 107.174 |
| 11 | 0 | 0 | 0 | 3 | 72 | 0.060703 | 0.15 | 4.80512 | 4.80512 | . | . | . | . | . | 480.000 | 60.446 | 60.446 |
| 12 | 0 | 0 | 0 | 4 | 73 | 0.060703 | 0.15 | 5.10994 | 5.10994 | . | . | . | . | . | 486.667 | 69.307 | 69.307 |
| 13 | 0 | 0 | 0 | 1 | 92 | 0.060703 | 0.15 | 4.19144 | 4.19144 | . | . | . | . | . | 613.333 | 58.768 | 58.768 |
| 14 | 0 | 0 | 1 | 5 | 99 | 0.060703 | 0.15 | 3.97934 | 3.97934 | 4.70000 | . | . | . | 4.70000 | 660.000 | 57.001 | 57.001 |
| 15 | 0 | 0 | 0 | 3 | 85 | 0.060703 | 0.15 | 3.48369 | 3.48369 | . | . | . | . | . | 566.667 | 37.508 | 37.508 |
| 16 | 0 | 0 | 0 | 4 | 119 | 0.060703 | 0.15 | 3.32332 | 3.32332 | . | . | . | . | . | 793.333 | 47.788 | 47.788 |
| 17 | 0 | 0 | 0 | 2 | 83 | 0.060703 | 0.15 | 3.56523 | 3.56523 | . | . | . | . | . | 553.333 | 38.360 | 38.360 |
| 18 | 0 | 0 | 0 | 1 | 112 | 0.060703 | 0.15 | 2.98345 | 2.98345 | . | . | . | . | . | 746.667 | 36.248 | 36.248 |

status =2                                                    07:33 Monday, October 26, 1998    4

| OBS | T_BA92 | T_BA93 | T_BA94 | T_BA95 | T_BA97 | T_SPBA91 | T_SPBA92 | T_SPBA93 | T_SPBA94 | T_SPBA95 | T_SPBA97 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 90.017 | . | . | . | . | 60.7565 | 11.7792 | . | . | . | . |
| 2 | 74.493 | 120.661 | 68.443 | . | . | 49.3107 | 16.9383 | 58.874 | 38.3862 | . | . |
| 3 | . | . | . | 142.868 | . | 73.6165 | . | . | . | 71.4169 | . |
| 4 | 109.789 | 181.307 | 198.733 | 134.038 | 163.072 | 84.6999 | 54.0928 | 90.326 | 97.4521 | 92.1508 | . |
| 5 | 79.878 | 74.706 | . | . | . | 60.6525 | 47.2730 | 47.797 | . | . | . |
| 6 | 102.041 | 117.166 | 150.011 | 150.447 | 182.849 | 66.9940 | 59.1459 | 44.702 | 82.4129 | 68.8284 | . |
| 7 | . | . | . | . | . | 50.0434 | . | . | . | . | . |
| 8 | . | 248.993 | . | . | 156.266 | 63.8745 | . | 128.129 | . | . | . |
| 9 | . | . | . | . | . | 42.8183 | . | . | . | . | . |
| 10 | . | . | . | . | . | 79.3310 | . | . | . | . | . |
| 11 | . | . | . | . | . | 43.5895 | . | . | . | . | . |
| 12 | . | . | . | . | . | 52.2159 | . | . | . | . | . |
| 13 | . | . | . | . | . | 45.7071 | . | . | . | . | . |
| 14 | 79.516 | . | . | . | 79.516 | 39.2793 | 52.1588 | . | . | . | . |
| 15 | . | . | . | . | . | 31.4692 | . | . | . | . | . |
| 16 | . | . | . | . | . | 37.3654 | . | . | . | . | . |
| 17 | . | . | . | . | . | 29.5400 | . | . | . | . | . |
| 18 | . | . | . | . | . | 28.2950 | . | . | . | . | . |